Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

2025 ANNUAL GROUNDWATER MONITORING & CORRECTIVE ACTION REPORT

PLANT BRANCH ASH POND E

Prepared by

Geosyntec consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW11514

July 2025

CERTIFICATION STATEMENT

This *2025 Annual Groundwater Monitoring and Corrective Action Report, Plant Branch Ash Pond E* has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



Digitally signed by Courtney L. Collins
Date: 2025.07.30 11:30:47 -04'00'

_____ July 31, 2025

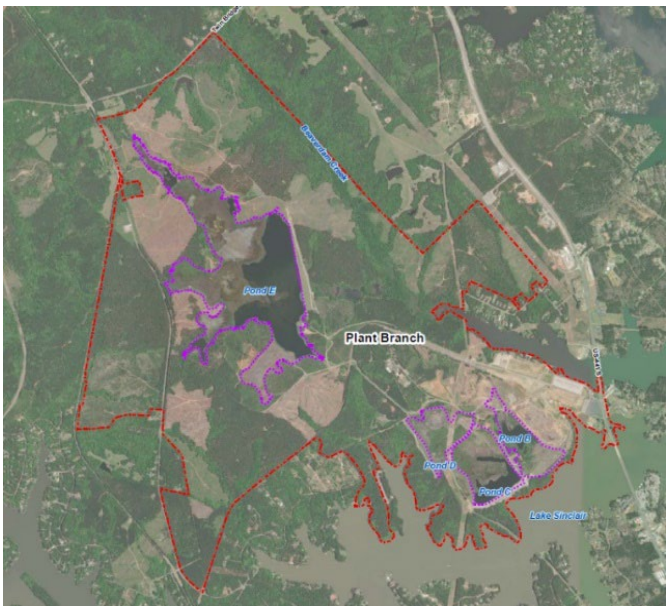
Courtney L. Collins — Date

Georgia Professional Engineer No. 032680

SUMMARY

This summary of the *2025 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of July 2024 through June 2025 (referred herein as the "annual reporting period") at the Georgia Power Company (Georgia Power) Plant Branch Ash Pond E (AP-E) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference, Part A, Section 6[1] of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

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



Plant Branch and the Site

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

Groundwater at the Site is monitored using a comprehensive well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between 2016 and 2018. Based on groundwater conditions at the Site, an assessment monitoring program was established on November 13, 2019, and the Site entered into an assessment of corrective measures on July 21, 2022. During the annual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on February 28, 2025.

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

During this annual reporting period, the semiannual assessment monitoring events for AP-E were conducted by Atlantic Coast Consulting (ACC) in August 2024 and February 2025. In order to meet the requirements of GA EPD Rule 391-3-4-.10(6) and 40 CFR 257.95 (b) and (d)(1), these semiannual assessment monitoring events included sampling and analysis of all Appendix III and Appendix IV constituents. Samples were collected and submitted to GEL Laboratories, LLC (GEL Laboratories), for analysis. Per the CCR Rule, groundwater results from these sampling events were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] constituents in wells listed in the tables below.

Appendix III Parameter	August 2024	February 2025
Boron	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
Calcium	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S

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

Chloride	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
Fluoride	BRGWC-38S	BRGWC-38S
pH (lower limit)	BRGWC-33S, BRGWC-36S, BRGWC-37S, BRGWC-38S	BRGWC-33S, BRGWC-36S, BRGWC-37S, BRGWC-38S
Sulfate	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
TDS	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S	BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S
Appendix IV Parameter	**August 2024**	**February 2025**
Beryllium	BRGWC-38S	BRGWC-38S
Cobalt	BRGWC-33S, BRGWC-38S	BRGWC-33S, BRGWC-38S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2024 through June 2025, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually.

TABLE OF CONTENTS

SUMMARY i

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

2.0 GROUNDWATER MONITORING ACTIVITIES 5
2.1 Monitoring Well Installation and Maintenance 5
2.2 Assessment Monitoring 5
2.3 Additional Sampling 6
2.4 Assessment of Corrective Measures 6

3.0 SAMPLING METHODOLOGY AND ANALYSES 7
3.1 Groundwater Level Measurement 7
3.2 Groundwater Gradient and Flow Velocity 7
3.3 Groundwater Sampling Procedures 9
3.4 Laboratory Analyses 10
3.5 Quality Assurance and Quality Control Summary 10

4.0 STATISTICAL ANALYSIS 11
4.1 Statistical Methods 11
4.1.1 Appendix III Statistical Methods 11
4.1.2 Appendix IV Statistical Methods 12
4.2 Statistical Analyses Results 12
4.2.1 August 2024 Data 12
4.2.2 February 2025 Data 13
4.2.3 Summary of Statistical Analyses 13

5.0 NATURE AND EXTENT 14

6.0 MONITORING PROGRAM STATUS 15

6.1 Assessment Monitoring Status 15
6.2 Assessment of Corrective Measures 15
6.3 Annual Potable Well Survey 16

7.0 CONCLUSIONS AND FUTURE ACTIONS 17

8.0 REFERENCES 18

LIST OF TABLES

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

LIST OF FIGURES

Figure 1 Site Location Map
Figure 2 Monitoring Well Network Map
Figure 3 Potentiometric Surface Contour Map – August 2024
Figure 4 Potentiometric Surface Contour Map – February 2025
Figure 5 Iso-Concentration Map, Beryllium – August 2024
Figure 6 Iso-Concentration Map, Beryllium – February 2025
Figure 7 Iso-Concentration Map, Cobalt – August 2024
Figure 8 Iso-Concentration Map, Cobalt – February 2025

LIST OF APPENDICES

Appendix A Well Abandonment Report
Appendix B Well Maintenance and Repair Documentation
Appendix C Analytical Laboratory Results and Field Sampling Forms
Appendix D Statistical Analysis Reports
Appendix E Potable Well Survey

LIST OF ACRONYMS

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

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2025 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Branch (Site) Ash Pond E (AP-E) for the reporting period of July 2024 through June 2025 (referred to herein as the "annual reporting period").

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

A CCR Unit Solid Waste Handling Permit application for AP-BCD was submitted to GA EPD in November 2018 and is under review.

Due to statistically significant increases (SSIs) of Appendix III parameters identified in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019), Georgia Power initiated an assessment monitoring program for AP-E on November 13, 2019. Statistically significant levels (SSLs) of Appendix IV parameters beryllium (Be) and cobalt (Co) were identified during the initial assessment monitoring event. Pursuant to § 257.95 as adopted by 391-3-4-.10, an Alternate Source Demonstration (ASD) was prepared in July 2020 in response to the SSLs identified for beryllium and cobalt in groundwater monitoring wells (Golder, 2020). GA EPD issued a letter of non-concurrence associated with the ASD submittal in April 2022 and Georgia Power subsequently initiated an assessment of corrective measures (ACM) program for AP-E on July 21, 2022. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-E in accordance with the assessment monitoring program established for the unit in 2019, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the CCR Rule. A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on February 28, 2025 (Geosyntec, 2025b). In the

interim of GA EPD's review of the *Draft Remedy Selection Report,* the state agency issued a letter on June 24, 2025, stating their support for Georgia Power to initiate a pilot study near BRGWC-33S at AP-E to facilitate further remedy design. Georgia Power will submit a workplan to GA EPD outlining the design and implementation of this pilot study prior to initiating the field work.

SSLs of beryllium in BRGWC-38S and cobalt in BRGWC-33S and BRGWC-38S have been identified for each assessment monitoring event subsequent to the November 2019 initiation and documented in the associated groundwater monitoring and corrective action reports. The groundwater quality data for the current annual reporting period indicate the SSLs have been horizontally and vertically delineated to below the established Groundwater Protection Standards (GWPS) and are contained within the property boundary.

1.1 Site Description and Background

Plant Branch is located in Putnam County, Georgia, approximately 8 miles north of Milledgeville. The property occupies approximately 3,200 acres and is bordered on the south and east by Lake Sinclair and by sparsely populated, forested, rural land on the north and west. Lake Sinclair is an approximately 15,330-acre hydroelectric reservoir that was created in 1953 by the impoundment of the Oconee River. Ash Pond E (AP-E) is a valley-fill containment area formed by the construction of an earthen embankment dike at the eastern portion of the ash pond. AP-E is located on the northwest corner of the Site surrounded by rural land on each side (**Figure 1**). The physical address of the Site is 1100 Milledgeville Road, Milledgeville, Georgia, 31024.

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

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

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-E as described in the *Hydrogeologic Assessment Report Revision 02 – AP-E* (HAR Rev 02) submitted to GA EPD in January 2025 to provide information regarding the hydrogeologic conditions and the groundwater monitoring well network at the Site (Geosyntec, 2025a).

1.2.1 Regional and Site Geology

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

Based on our review of available data, micaceous, locally saprolitic soils, consisting primarily of clay, silty clay, silt, and sandy clay occur as a variably thick blanket of residuum overlying bedrock across most of the Site. The thickness of the residual soil encountered in AP-E borings is variable, ranging from a few feet to as much as 90 feet. Between the residual soil/saprolite zone and the underlying bedrock there is a zone of transitionally weathered rock (TWR) or partially weathered rock (PWR), as defined by standard penetration test data, where available. Material overlying the top of rock surface, including residual soil/saprolite and TWR/PWR, is collectively referred to as overburden.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at the Site is an unconfined regional groundwater aquifer that occurs primarily in the saprolite, PWR, and fractured bedrock. While the aquifer characteristics of each unit may vary, the groundwater is interpreted to be interconnected between these units, and they effectively act as one, unconfined aquifer. Generally, the water table surface at the Site is a subdued reflection of topography, with groundwater

generally flowing east, west, and south. Downward hydraulic gradients dominate in the topographically high areas, while upward gradients are observed in topographic lows. Recharge to the fractured bedrock aquifer system comes primarily from precipitation that is stored in the overburden and slowly infiltrates to the bedrock through areas of enhanced permeability. Interconnected fractures are the primary conduit for groundwater flow through bedrock since the rock lacks primary porosity. Groundwater flow in the uppermost portion of the aquifer is expected to be primarily in the regolith and transition zone (i.e., PWR and highly fractured bedrock), with less flow within the significantly lower permeability fractured bedrock.

1.3 Groundwater Monitoring Well Network

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

Based on the Site hydrogeology, the monitoring well system is designed to monitor groundwater flow in the overburden, the transition-zone, and the upper bedrock as a single interconnected aquifer system. Wells suffixed with an "S" are installed in overburden (saprolitic soil), an "I" indicates TWR/PWR and the upper fractured mantle of bedrock (transition zone), and "D" indicates a screened zone in the deeper bedrock. Construction details for the wells and piezometers associated with evaluating groundwater flow and/or quality conditions in vicinity of AP-E are listed in **Table 1**. The locations of the detection monitoring wells and assessment monitoring wells are shown on **Figure 2**. Pursuant to § 257.195(g)(1)(iv), assessment monitoring wells will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

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

2.0 GROUNDWATER MONITORING ACTIVITIES

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

2.1 Monitoring Well Installation and Maintenance

No new monitoring wells or piezometers were installed at AP-E during the annual reporting period. However, two temporary piezometers (PZ-76I and PZ-77I), installed to provide additional data for the geochemical characterization and remedy selection efforts at the Site, were deemed no longer necessary and were subsequently abandoned. The corresponding well abandonment report is provided in **Appendix A** and was also submitted to GA EPD under separate cover.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or maintenance are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2024 and February 2025, the networks were inspected and no corrective actions were required, as documented in **Appendix B**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(3), an assessment monitoring program was initiated for AP-E based on SSIs of Appendix III constituents documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2019). A notice of assessment monitoring was placed in the operating record on November 13, 2019. Georgia Power submitted an ASD to GA EPD for the observed SSLs (Golder, 2020) that was not accepted by GA EPD in April 2022. Within 90 days of receiving GA EPD's nonconcurrence letter, Georgia Power initiated the ACM program for AP-E on July 21, 2022. Georgia Power completed the *Assessment of Corrective Measures Report* (ACM Report) (Geosyntec, 2022) for AP-E at Plant Branch on December 16, 2022. A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted separately to GA EPD concurrent with this report (Geosyntec, 2025b). In accordance with § 257.96(b), groundwater continues to be monitored at AP-E under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, semiannual assessment monitoring events were conducted in August 2024 and February 2025. The wells sampled during these events and the dates associated with the events are summarized in **Table 2**. The collected groundwater samples were analyzed for the complete list of Appendix III and Appendix IV constituents.

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

2.3 Additional Sampling

Supplemental sampling was conducted during the reporting period in support of the ACM program and in continuing to evaluate the nature and extent of impacts resulting from AP-E. Supplemental groundwater samples were collected from the monitoring well network during the August 2024 and February 2025 assessment monitoring events and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, nitrate, sulfate), and alkalinity (i.e., bicarbonate, carbonate, total) as well as iron manganese, and sulfide. The laboratory reports associated with the data are provided in **Appendix C**.

2.4 Assessment of Corrective Measures

To support remedial design and pilot study planning, a pre-design investigation (PDI) including high-resolution site characterization (HRSC) is planned to characterize and refine the cobalt plume extent proximal to BRGWC-33S, near AP-E. The HRSC activities are currently expected to include the collection of groundwater screening samples, followed by the installation and sampling of monitoring wells to confirm the plume boundaries. Data collected during the HRSC will inform a future pilot study and support remedy selection activities. A summary of activities completed to advance the corrective action design will be included in subsequent semiannual groundwater monitoring and corrective action reports.

3.0 SAMPLING METHODOLOGY AND ANALYSES

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

3.1 Groundwater Level Measurement

Prior to each semiannual assessment monitoring event, a synoptic round of depth-to-groundwater-level measurements was recorded from all the wells and piezometers (including those associated with AP-BCD and the proposed new CCR landfill area) and used to calculate the corresponding groundwater elevations. The calculated groundwater elevations obtained in August 2024 and February 2025 at AP-BCD and AP-E are presented in **Table 3**. The surface water elevations for Lake Sinclair are obtained from Georgia Power.

The groundwater and surface water elevation data were used to prepare site-wide potentiometric surface maps for the August 2024 and February 2025 events, which are presented on **Figures 3** and **4,** respectively. The general direction of groundwater flow across AP-E is to the east-southeast. This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer beneath AP-E were calculated using the groundwater elevation data from the August 2024 and February 2025 events. Horizontal hydraulic gradients were calculated along the flow paths between BRGWA-5S and BRGWC-33S along the northern extent of AP-E, and between PZ-4S and BRGWC-38S along the southern extent of AP-E in August 2024 and February 2025. The supporting calculations are presented in **Table 4**. The calculated average hydraulic gradients associated with these well pairs for the annual reporting period are 0.005 feet per foot (ft/ft) and 0.010 ft/ft, respectively (**Table 4**). The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**.

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

The horizontal hydraulic conductivity (K_h) value used in flow calculations is 5.78 feet per day (ft/day) and was based on slug test data presented in the *Hydrogeologic Assessment Report Revision 02* (Geosyntec, 2025a). The average observed K_h estimates from the well pairs were used to produce a representative estimate of groundwater flow velocity. An estimated effective porosity of 0.20 is used to represent average conditions at AP-E which was derived based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996). With these variables determined, and accounting for the averaged hydraulic gradient calculated between well pairs for the August 2024 and February 2025 events, horizontal flow velocities were calculated as below.

The approximate horizontal flow velocities associated with AP-E were calculated using the following derivative of Darcy's Law. The supporting calculations for the August 2024 and February 2025 semiannual events are presented in **Table 4**.

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

where:

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

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

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

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average groundwater flow velocity at the Site for this annual reporting period is approximately 0.22 ft/day across AP-E. The observed groundwater flow velocities are generally consistent with expected velocities, are consistent with historical observations, and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for AP-E at Plant Branch.

3.3 Groundwater Sampling Procedures

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

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

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

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

During the August 2024 and February 2025 events, one low yielding well was encountered. During both events, PZ-52D purged dry and required sample collection the following day, or later the same day, due to low recharge rates.

3.4 Laboratory Analyses

Laboratory analyses were performed by GEL Laboratories, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). GEL Laboratories maintains a NELAP certification for the Appendix III and Appendix IV constituents and the geochemical parameters analyzed for this project. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix C**.

The analytical results from the August 2024 and February 2025 monitoring events are summarized in **Table 5**.

3.5 Quality Assurance and Quality Control Summary

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

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

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the August 2024 and February 2025 assessment monitoring events. The data were analyzed by Groundwater Stats Consulting (GSC); the reports generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

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

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis report provided in **Appendix D** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

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

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

4.1.2 Appendix IV Statistical Methods

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

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified. GWPS for statistical comparison of Appendix IV constituents are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis of August 2024 and February 2025 data presented in **Appendix D**, groundwater conditions have not returned to background and assessment monitoring should continue pursuant to § 257.95(f). A detailed list of the noted exceedances is provided in **Appendix D**.

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

4.2.1 August 2024 Data

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). Statistically significant decreasing trends of beryllium and cobalt were identified during this reporting period in BRGWC-38S.

4.2.2 February 2025 Data

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). Statistically significant decreasing trends of beryllium and cobalt were identified during this reporting period in BRGWC-38S. No statistically significant trend was identified for cobalt in BRGWC-33S.

4.2.3 Summary of Statistical Analyses

The SSLs identified for the annual reporting period have remained consistent with the previous reporting. The statistically decreasing concentration trends for beryllium and cobalt (**Appendix D**) in BRGWC-38S have been consistent with the previous reporting events and reflects ongoing natural attenuation of these constituents in the aquifer media at AP-E. Following the January 2024 sampling event, a statistically decreasing trend for cobalt in BRGWC-33S was no longer identified due to recent increases in groundwater concentrations. These increases are likely the result of dewatering and closure construction activities within AP-E and, therefore, expected to be transient in nature. They likely reflect impacts from dewatering and closure construction activities including trenching to allow water flow from regions of AP-E near BRGWC-33S to assist in pond dewatering. These activities have resulted in temporal alteration of the hydrogeological conditions, changes in groundwater flow field in the vicinity of BRGWC-33S, and variability of source water upgradient of BRGWC-33S resulting in increased cobalt in groundwater.

5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, the SSLs for wells and constituents identified in Section 4.2 have been horizontally and vertically delineated to below the established GWPS and are contained within the property boundary. Delineation is determined by confidence intervals (statistical analysis) prepared for the assessment wells discussed below. Results of the statistical analyses are provided in **Appendix D**.

The identified SSLs of beryllium and cobalt in BRGWC-38S are horizontally and vertically delineated to below the GWPS by PZ-70I and PZ-53D, respectively. Similarly, the SSL of cobalt in BRGWC-33S is horizontally and vertically delineated by PZ-13S and PZ-52D, respectively. The groundwater data from the August 2024 and February 2025 semiannual assessment monitoring events were used to generate the beryllium and cobalt iso-concentration maps presented on **Figures 5** through **8**, respectively. Additional details regarding the delineation status and data are discussed in the *Draft Remedy Selection Report* that was submitted to GA EPD on February 28, 2025.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-E in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSL concentrations of beryllium and cobalt in BRGWC-38S and cobalt in BRGWC-33S. Pursuant to § 257.195(g)(1)(iv), the additional assessment wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Repor*t was submitted to GA EPD on February 28, 2025, in lieu of the *Semiannual Remedy Selection and Design Progress Reports*. The *Draft Remedy Selection Report* included a comprehensive description and compilation of the following content and documents:

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

ii) The current groundwater geochemical conceptual site model (GCSM) applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2022);

iii) A risk evaluation;

iv) A monitored natural attenuation (MNA) evaluation to assess the applicability of this corrective action measure to SSLs observed in BRGWC-38S; and

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

In the interim of GA EPD's review of the *Draft Remedy Selection Report,* treatability studies are in progress and planning is underway for a PDI and pilot study to assess the requirements to design and implement an injection system capable of addressing the cobalt SSL as part of the proposed remedy. On June 24, 2025, GA EPD issued a letter supporting Georgia Power's initiation of a pilot study to facilitate further remedy design for the cobalt at BRGWC-33S. The agency also noted that decreasing concentrations at

BRGWC-38S supported MNA as the selected remedy for beryllium and cobalt at BRGWC-38S.

Georgia Power is planning a PDI to characterize and refine the extent of the cobalt plume proximal to BRGWC-33S. Data collected during the PDI will inform the injection pilot study and support remedy selection. Georgia Power will submit a pilot study workplan to GA EPD that outlines the design and implementation of this pilot study to support corrective action design. Updates concerning the pilot study and any additional data to support corrective action design will be reported to GA EPD as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting.

6.3 Annual Potable Well Survey

An updated potable well survey of potential groundwater wells within a two-mile radius of AP-E was conducted in October 2024 through January 2025 and consisted of reviewing federal, state, county records, and online sources. Surveys conducted by Environmental Data Resources (EDR) are included in **Appendix E**. Additional federal, state, county records and online sources outside of the EDR survey were also reviewed. The Putnam County Environmental Health Department did not provide a response. The findings from the 2024 well survey are consistent with the 2023 well survey (Geosyntec, 2024), including the following additional feature identified:

- One drinking water well located approximately 1.8 miles east of AP-E, with geographic coordinates 33.20897, -83.29427 and an address of 108 Falcon Wy SE, Milledgeville, Georgia, 31061.

Beaverdam Creek and portions of Lake Sinclair are located between AP-E and the well listed above. Therefore, it is reasonable to expect the well to be hydrologically separated from the Site and is not considered to be hydraulically downgradient.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2025 Annual Groundwater Monitoring and Corrective Action Report* for Plant Branch AP-E was prepared to fulfill the requirements of the CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. The groundwater flow direction and rates interpreted during the August 2024 and February 2025 monitoring events are generally consistent with historical evaluations. Statistical analysis of the groundwater monitoring data for the AP-E well network confirmed the continued presence of SSLs of beryllium and cobalt in BRGWC-38S and cobalt in BRGWC-33S above corresponding GWPS. Based on the most current groundwater quality and flow data from this reporting period, as described in Section 5, the SSLs of beryllium and cobalt are vertically and horizontally delineated downgradient to below the GWPS and are contained within the property boundary.

Georgia Power will continue to monitor AP-E groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, for AP-E was submitted to GA EPD on February 28, 2025. The next routine semiannual assessment monitoring event for AP-E is scheduled for August 2025. The treatability studies are in progress and planning for the PDI and pilot study is underway.

8.0 REFERENCES

Geosyntec, 2022. *Assessment of Corrective Measures Report, Georgia Power – Plant Branch, Putnam County, Georgia*. December 2022.

Geosyntec, 2024. *2024 Semiannual Groundwater Monitoring and Corrective Action Report - Plant Branch Ash Pond E (AP-E).* February 2024.

Geosyntec, 2025a. *Hydrogeologic Assessment Report Revision 02, Georgia Power - Plant Branch, Putnam County, Georgia*. Submitted to Southern Company Services in January 2025.

Geosyntec, 2025b. *Draft Remedy Selection Report, Georgia Power - Plant Branch Ash Pond E (AP-E), Putnam County, Georgia*. February 2025.

Golder Associates, 2019. *2019 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Plant Branch, Milledgeville, Georgia*, August 2019.

Golder Associates, 2020. *Alternate Source Demonstration – Ash Pond E, Georgia Power Plant Branch, Milledgeville, Georgia*, July 2020.

USEPA, 1996. Soil Guidance Manual.

USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March 2009.

USEPA, 2011. *Region IV Data Validation Standard Operating Procedures.* Science and Ecosystem Support Division. Region IV. Athens, GA. September 2011.

USEPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January 2017.

TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth from (Feet Below Top of Casing)	Groundwater Zone Screened	Installation Date
AP-BCD Monitoring Well Network											
BRGWA-2S	Detection	Upgradient	1167139.70	2549952.60	440.40	443.20	406.20	396.20	47.40	Saprolite	04/02/2014
BRGWA-2I	Detection	Upgradient	1167130.00	2549957.30	440.50	443.14	386.60	376.60	66.94	Bedrock	03/14/2014
BRGWA-5S	Detection	Upgradient	1170177.50	2549415.50	440.80	443.86	411.20	401.20	43.06	Saprolite	04/03/2014
BRGWA-5I	Detection	Upgradient	1170183.70	2549408.00	441.10	443.79	390.30	380.30	63.89	Bedrock	04/03/2014
BRGWA-6S	Detection	Upgradient	1170732.90	2551540.80	455.80	458.96	416.50	406.50	52.86	Saprolite	04/01/2014
BRGWA-23S	Detection	Upgradient	1162971.70	2557868.10	425.50	428.24	395.00	385.00	43.54	PWR/Bedrock	07/26/2016
BRGWC-25I	Detection	Downgradient	1160583.70	2561315.10	355.00	357.37	344.40	334.40	23.37	PWR/Bedrock	07/25/2016
BRGWC-27I	Detection	Downgradient	1159695.30	2559712.20	364.00	366.86	350.40	340.40	26.86	Saprolite	07/22/2016
BRGWC-29I	Detection	Downgradient	1160297.60	2561050.20	350.60	353.23	340.60	330.60	23.03	PWR/Bedrock	07/23/2016
BRGWC-30I	Detection	Downgradient	1161607.60	2557691.80	350.00	352.61	340.15	330.15	22.86	PWR/Bedrock	07/18/2016
BRGWC-32S	Detection	Downgradient	1160677.70	2558497.90	403.60	406.39	369.00	359.00	47.79	Saprolite	07/20/2016
BRGWC-44	Detection	Downgradient	1161724.60	2561587.50	380.50	383.04	333.90	323.90	59.54	Saprolite/PWR/Bedrock	02/02/2018
BRGWC-45	Detection	Downgradient	1162229.80	2561075.50	381.60	384.58	335.00	325.00	59.98	Saprolite/PWR	02/03/2018
BRGWC-47	Detection	Downgradient	1162700.70	2559456.70	408.80	411.20	327.20	317.20	94.40	PWR	01/25/2018
BRGWC-52I	Detection	Downgradient	1161275.00	2562145.30	381.20	383.87	317.30	307.30	76.57	Saprolite/Bedrock	08/06/2018
PZ-63I	Detection	Downgradient	1161371.20	2562233.10	378.60	381.31	332.35	322.35	59.21	Saprolite/PWR/Bedrock	01/05/2022
PZ-80	Detection	Downgradient	1161564.13	2562102.23	379.10	382.24	344.10	334.10	48.57	Saprolite	03/18/2025
PZ-81	Detection	Downgradient	1161492.93	2562260.71	378.66	381.86	340.76	330.76	51.40	PWR/Saprolite	03/12/2025
PZ-68D	Assessment	Downgradient	1160690.48	2558512.90	402.50	405.25	328.50	318.50	87.00	Bedrock	09/06/2022
PZ-74I	Assessment	Downgradient	1160189.30	2557970.94	368.25	371.13	330.50	320.50	50.88	PWR/Bedrock	05/24/2023
PZ-75I	Assessment	Downgradient	1160009.37	2558343.03	354.88	357.86	337.88	327.88	30.38	PWR/Bedrock	06/27/2023
AP-E Monitoring Well Network											
BRGWA-2S	Detection	Upgradient	1167139.70	2549952.60	440.40	443.20	406.20	396.20	47.40	Saprolite	04/02/2014
BRGWA-2I	Detection	Upgradient	1167130.00	2549957.30	440.50	443.14	386.60	376.60	66.94	Bedrock	03/14/2014
BRGWA-5S	Detection	Upgradient	1170177.50	2549415.50	440.80	443.86	411.20	401.20	43.06	Saprolite	04/03/2014
BRGWA-5I	Detection	Upgradient	1170183.70	2549408.00	441.10	443.79	390.30	380.30	63.89	Bedrock	04/03/2014
BRGWA-6S	Detection	Upgradient	1170732.90	2551540.80	455.80	458.96	416.50	406.50	52.86	Saprolite	04/01/2014
BRGWC-17S	Detection	Downgradient	1166301.50	2554687.70	362.20	365.32	360.50	355.50	10.22	Saprolite	03/13/2014
BRGWC-33S	Detection	Downgradient	1168057.00	2554064.80	414.20	416.68	398.20	388.20	28.88	Saprolite/PWR/Bedrock	07/26/2016
BRGWC-34S	Detection	Downgradient	1167384.00	2554231.20	389.20	391.96	376.20	366.20	26.16	Saprolite	07/25/2016
BRGWC-35S	Detection	Downgradient	1166646.00	2554476.30	363.70	366.31	346.70	336.70	30.01	Saprolite	07/23/2016
BRGWC-36S	Detection	Downgradient	1165742.70	2554693.30	383.10	389.84	364.60	354.60	35.44	Saprolite	07/26/2016
BRGWC-37S	Detection	Downgradient	1165093.00	2554979.50	444.40	447.05	391.24	381.24	66.21	Saprolite/PWR	07/24/2016
BRGWC-38S	Detection	Downgradient	1164391.90	2555016.50	429.80	432.24	402.00	392.00	40.64	Saprolite/PWR	07/22/2016
PZ-13S	Assessment	Downgradient	1168011.40	2555276.70	406.50	409.97	382.20	372.20	38.17	Saprolite	03/19/2014
PZ-52D	Assessment	Downgradient	1168053.90	2554051.70	414.30	417.03	364.80	354.80	62.23	Bedrock	05/14/2020
PZ-53D	Assessment	Downgradient	1164393.80	2554984.30	431.60	434.68	302.20	292.20	142.73	Bedrock	05/17/2020
PZ-70I	Assessment	Downgradient	1164326.66	2555374.08	422.88	425.70	383.38	373.38	52.82	Saprolite/PWR	08/16/2022
Piezometers											
PZ-1S	Piezometer	Upgradient	1171996.40	2551588.00	462.40	465.07	407.80	397.80	67.67	Saprolite	03/20/2014
PZ-1I	Piezometer	Upgradient	1171995.80	2551577.80	461.90	464.71	392.80	382.80	82.31	Bedrock	03/10/2014
PZ-1D	Piezometer	Upgradient	1171999.00	2551598.10	462.90	463.41	397.40	302.90	160.51	Bedrock	04/04/2014
PZ-3S	Piezometer	Upgradient	1165484.50	2550274.60	487.00	490.53	457.50	447.50	43.43	Saprolite	03/11/2014
PZ-3I	Piezometer	Upgradient	1165494.50	2550273.20	486.50	489.49	442.30	432.30	57.59	Bedrock	03/11/2014
PZ-3D	Piezometer	Upgradient	1165474.40	2550275.10	486.70	487.50	438.70	356.70	130.80	Bedrock	03/27/2014
PZ-4S	Piezometer	Upgradient	1163247.80	2551270.10	479.90	482.87	460.30	450.30	32.97	Saprolite	03/10/2014
PZ-4I	Piezometer	Upgradient	1163246.80	2551282.00	479.90	482.98	443.50	433.50	49.88	Bedrock	03/11/2014
PZ-7S	Piezometer	Downgradient	1169419.20	2553055.60	449.00	451.57	414.90	404.90	47.07	Saprolite	04/01/2014
PZ-8S	Piezometer	Upgradient	1167801.10	2551188.90	450.50	453.08	411.40	401.40	52.08	Saprolite	04/01/2014
PZ-9S	Piezometer	Upgradient	1162633.30	2553089.60	466.10	469.28	428.50	418.50	51.18	Saprolite	03/05/2014
PZ-10S	Piezometer	Downgradient	1164021.50	2554990.50	431.00	433.85	402.40	392.40	41.85	Saprolite	03/05/2014
PZ-14S	Piezometer	Downgradient	1168398.70	2554359.20	420.20	423.31	393.00	383.00	40.71	Saprolite	03/20/2014
PZ-14I	Piezometer	Downgradient	1168398.20	2554365.60	419.90	422.71	376.50	366.50	56.61	Bedrock	03/20/2014
PZ-15S	Piezometer	Downgradient	1167720.30	2554394.00	400.10	402.90	370.60	360.60	42.70	Saprolite	03/27/2014
PZ-15I	Piezometer	Downgradient	1167720.90	2554399.20	400.20	403.06	321.90	311.90	91.56	Bedrock	03/25/2014

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth from (Feet Below Top of Casing)	Groundwater Zone Screened	Installation Date
PZ-16S	Piezometer	Downgradient	1166977.80	2554581.40	379.30	382.52	370.60	360.60	22.32	Saprolite	03/18/2014
PZ-16I	Piezometer	Downgradient	1166980.70	2554587.50	379.50	382.45	351.30	341.30	41.55	Bedrock	03/14/2014
PZ-17I	Piezometer	Downgradient	1166313.80	2554702.50	362.30	365.33	329.20	319.20	46.53	Bedrock	03/17/2014
PZ-18S	Piezometer	Downgradient	1160757.30	2557747.40	359.70	362.82	345.00	335.00	28.22	Saprolite	03/26/2014
PZ-18I	Piezometer	Downgradient	1160766.20	2557745.50	359.60	362.55	331.50	321.50	41.45	PWR/Bedrock	02/26/2014
PZ-19S	Piezometer	Downgradient	1159805.40	2558894.50	368.40	371.42	350.80	340.80	31.02	Saprolite	03/04/2014
PZ-19I	Piezometer	Downgradient	1159797.10	2558900.00	368.90	371.74	335.60	325.60	46.54	PWR/Bedrock	03/04/2014
PZ-20S	Piezometer	Downgradient	1159490.30	2560157.00	362.20	365.41	357.20	347.20	18.61	Saprolite	03/05/2014
PZ-20I	Piezometer	Downgradient	1159495.40	2560160.20	362.20	365.34	343.10	333.10	32.64	PWR/Bedrock	03/05/2014
PZ-21S	Piezometer	Downgradient	1160592.40	2561321.30	355.50	358.52	351.10	346.10	12.82	Saprolite	03/11/2014
PZ-21I	Piezometer	Downgradient	1160591.60	2561328.20	355.80	358.92	341.80	331.80	27.52	PWR/Bedrock	03/10/2014
PZ-23I	Piezometer	Downgradient	1162975.40	2557877.70	425.10	427.74	368.60	358.60	69.54	Bedrock	07/29/2016
PZ-24S	Piezometer	Downgradient	1162400.90	2562862.20	351.40	354.10	319.90	309.90	44.70	Saprolite	07/27/2016
PZ-26I	Piezometer	Downgradient	1160669.00	2561626.40	368.00	370.63	347.90	337.90	33.13	PWR/Bedrock	07/26/2016
PZ-28I	Piezometer	Downgradient	1159505.10	2560151.70	362.50	364.81	348.50	338.50	26.71	PWR/Bedrock	07/24/2016
PZ-31S	Piezometer	Downgradient	1160936.90	2557971.80	374.30	376.77	345.20	335.20	41.97	PWR/Bedrock	07/26/2016
PZ-40S	Piezometer	Downgradient	1162414.90	2562807.70	353.20	355.96	323.40	313.40	42.96	Saprolite	02/14/2017
PZ-41S	Piezometer	Downgradient	1162431.80	2562759.40	354.30	357.17	320.50	310.50	47.07	Saprolite	02/14/2017
PZ-42S	Piezometer	Downgradient	1162845.70	2562735.00	359.00	361.66	337.20	327.20	34.86	Saprolite	02/09/2017
PZ-46	Piezometer	Downgradient	1162756.20	2560559.00	382.10	384.64	346.50	336.50	49.07	PWR/Bedrock	02/05/2018
PZ-48	Piezometer	Downgradient	1163046.70	2558444.60	418.30	420.90	361.70	351.70	69.60	Saprolite/PWR/Bedrock	01/24/2018
PZ-49	Piezometer	Downgradient	1163321.20	2561125.70	382.20	384.99	375.60	365.60	19.79	Saprolite/Bedrock	01/30/2018
PZ-54	Piezometer	Downgradient	1164828.70	2555458.30	440.80	443.86	399.05	389.05	55.06	Saprolite/PWR	05/15/2020
PZ-55	Piezometer	Downgradient	1163208.00	2554783.60	450.20	453.07	411.15	401.15	52.17	Saprolite/PWR	05/19/2020
PZ-56	Piezometer	Downgradient	1162965.10	2554086.30	416.20	418.84	397.15	387.15	31.94	Saprolite/PWR/Bedrock	05/20/2020
PZ-69I	Piezometer	Downgradient	1160311.39	2558447.46	376.97	379.36	347.97	337.97	41.64	Saprolite	08/31/2022
PZ-71I	Piezometer	Downgradient	1160295.35	2558230.83	382.57	385.34	352.82	342.82	42.77	Saprolite/PWR/Bedrock	05/02/2023
PZ-72I	Piezometer	Downgradient	1160133.29	2558394.65	365.91	368.57	342.01	332.01	36.86	PWR/Bedrock	05/09/2023
PZ-73I	Piezometer	Downgradient	1160226.37	2558559.30	349.87	352.63	334.87	324.87	28.01	PWR/Bedrock	05/10/2023

Notes:
Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
Ground surface elevation defined at the survey nail installed within the well pad.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
Total well depth accounts for sump if data provided on construction logs.
PZ-44 was renamed BRGWC-44 and reclassified to a detection well.
PZ-63I and two new piezometers (PZ-80 and PZ-81) are included in the detection network to monitor groundwater quality in immediate proximity to AP-B shown to be affected by impacts from the former coal pile.
PWR = Partially Weathered Rock

Table 2
Groundwater Sampling Event Summary
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

Well ID	Hydraulic Location	Well Designation	August 27 2024 - August 28 2024	February 18 2025 - February 26 2025
			Assessment Event	Assessment Event
Georgia Power Company - Plant Branch - Ash Pond E				
BRGWA-2I	Upgradient	Detection	X	X
BRGWA-2S	Upgradient	Detection	X	X
BRGWA-5I	Upgradient	Detection	X	X
BRGWA-5S	Upgradient	Detection	X	X
BRGWA-6S	Upgradient	Detection	X	X
BRGWC-17S	Downgradient	Detection	X	X
BRGWC-33S	Downgradient	Detection	X	X
BRGWC-34S	Downgradient	Detection	X	X
BRGWC-35S	Downgradient	Detection	X	X
BRGWC-36S	Downgradient	Detection	X	X
BRGWC-37S	Downgradient	Detection	X	X
BRGWC-38S	Downgradient	Detection	X	X
PZ-13S	Downgradient	Assessment	X	X
PZ-52D	Downgradient	Assessment	X	X
PZ-53D	Downgradient	Assessment	X	X
PZ-70I	Downgradient	Assessment	X	X

Notes:
X - Indicates well sampled during event

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

		August 2024		February 2025	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
AP-BCD Detection Monitoring Well Network					
BRGWA-2I	443.14	13.39	429.75	11.64	431.50
BRGWA-2S	443.20	13.59	429.61	11.70	431.50
BRGWA-5I	443.79	14.44	429.35	14.17	429.62
BRGWA-5S	443.86	14.59	429.27	14.25	429.61
BRGWA-6S	458.96	28.71	430.25	28.99	429.97
BRGWA-23S	428.24	41.79	386.45	42.15	386.09
BRGWC-25I	357.37	13.08	344.29	12.25	345.12
BRGWC-27I	366.86	13.55	353.31	12.51	354.35
BRGWC-29I	353.23	11.64	341.59	10.71	342.52
BRGWC-30I	352.61	5.41	347.20	5.11	347.50
BRGWC-32S	406.39	41.88	364.51	42.80	363.59
BRGWC-44	383.04	30.37	352.67	31.16	351.88
BRGWC-45	384.58	15.83	368.75	14.92	369.66
BRGWC-47	411.20	30.21	380.99	31.74	379.46
BRGWC-52I	383.87	40.88	342.99	40.62	343.25
PZ-63I	381.31	40.28	341.03	39.64	341.67
AP-E Detection Monitoring Well Network					
BRGWA-2I	443.14	13.39	429.75	11.64	431.50
BRGWA-2S	443.20	13.59	429.61	11.70	431.50
BRGWA-5I	443.79	14.44	429.35	14.17	429.62
BRGWA-5S	443.86	14.59	429.27	14.25	429.61
BRGWA-6S	458.96	28.71	430.25	28.99	429.97
BRGWC-17S	365.32	6.02	359.30	5.31	360.01
BRGWC-33S	416.68	15.87	400.81	14.67	402.01
BRGWC-34S	391.96	4.56	387.40	3.67	388.29
BRGWC-35S	366.31	1.02	365.29	0.30	366.01
BRGWC-36S	389.84	6.28	383.56	5.90	383.94
BRGWC-37S	447.05	55.58	391.47	56.95	390.10
BRGWC-38S	432.24	25.44	406.80	26.10	406.14
AP-BCD Assessment Monitoring Well Network					
PZ-68D	405.25	42.44	362.81	43.30	361.95
PZ-74I	371.13	28.82	342.31	29.04	342.09
PZ-75I	357.86	18.46	339.40	17.36	340.50
AP-E Assessment Monitoring Well Network					
PZ-13S	409.97	31.11	378.86	32.38	377.59
PZ-52D	417.03	25.33	391.70	26.80	390.23
PZ-53D	434.68	26.58	408.10	27.54	407.14
PZ-70I	425.70	31.48	394.22	32.70	393.00
Piezometers					
PZ-1S	465.07	42.41	422.66	43.61	421.46
PZ-1I	464.71	44.17	420.54	45.11	419.60
PZ-1D	463.41	42.39	421.02	43.39	420.02
PZ-3S	490.53	--	--	--	--
PZ-3I	489.49	52.45	437.04	52.82	436.67
PZ-3D	487.50	50.12	437.38	50.31	437.19
PZ-4S	482.87	32.99	449.88	33.19	449.68
PZ-4I	482.98	35.13	447.85	36.44	446.54
PZ-7S	451.57	31.29	420.28	31.51	420.06
PZ-8S	453.08	29.02	424.06	28.25	424.83

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

		August 2024		February 2025	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
PZ-9S	469.28	37.15	432.13	38.80	430.48
PZ-10S	433.85	29.94	403.91	30.74	403.11
PZ-14S	423.31	27.42	395.89	27.05	396.26
PZ-14I	422.71	22.44	400.27	23.81	398.90
PZ-15S	402.90	13.23	389.67	11.83	391.07
PZ-15I	403.06	13.03	390.03	11.61	391.45
PZ-16S	382.52	13.18	369.34	11.69	370.83
PZ-16I	382.45	13.04	369.41	11.55	370.90
PZ-17I	365.33	3.47	361.86	2.45	362.88
PZ-18S	362.82	21.72	341.10	21.21	341.61
PZ-18I	362.55	21.56	340.99	20.99	341.56
PZ-19S	371.42	17.95	353.47	18.91	352.51
PZ-19I	371.74	18.52	353.22	19.35	352.39
PZ-20S	365.41	18.44	346.97	17.75	347.66
PZ-20I	365.34	18.69	346.65	17.60	347.74
PZ-21S	358.52	12.70	345.82	--	--
PZ-21I	358.92	14.58	344.34	13.78	345.14
PZ-23I	427.74	40.65	387.09	41.52	386.22
PZ-24S	354.10	14.77	339.33	13.67	340.43
PZ-26I	370.63	25.58	345.05	26.60	344.03
PZ-28I	364.81	18.16	346.65	17.10	347.71
PZ-31S	376.77	29.01	347.76	29.61	347.16
PZ-40S	355.96	16.33	339.63	15.56	340.40
PZ-41S	357.17	17.51	339.66	16.81	340.36
PZ-42S	361.66	20.77	340.89	21.16	340.50
PZ-46	384.64	13.16	371.48	11.07	373.57
PZ-48	420.90	34.96	385.94	36.31	384.59
PZ-49	384.99	11.54	373.45	9.81	375.18
PZ-54	443.86	51.81	392.05	53.17	390.69
PZ-55	453.07	48.59	404.48	50.17	402.90
PZ-56	418.84	11.01	407.83	5.86	412.98
PZ-69I	379.36	22.69	356.67	23.41	355.95
PZ-71I	385.34	34.17	351.17	34.91	350.43
PZ-72I	368.57	26.17	342.40	27.70	340.87
PZ-73I	352.63	8.12	344.51	7.45	345.18
Former Coal Pile Area Piezometers					
BRGWC-50	381.35	39.23	342.12	*	*
PZ-43	383.71	39.41	344.30	*	*
PZ-50D	380.86	38.86	342.00	*	*
PZ-51D	380.75	38.83	341.92	*	*
PZ-51I	380.52	39.23	341.29	*	*
PZ-51S	380.27	39.26	341.01	*	*
PZ-57I	382.50	37.69	344.81	*	*
PZ-58I	382.27	38.67	343.60	*	*
PZ-59I	383.49	40.01	343.48	*	*
PZ-60I	382.61	39.37	343.24	*	*
PZ-61I	380.64	41.24	339.40	*	*
PZ-62I	380.95	39.96	340.99	*	*
PZ-64I	381.94	39.52	342.42	*	*
PZ-65I	382.06	37.40	344.66	*	*

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

		August 2024		February 2025	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
PZ-66I	383.52	37.34	346.18	*	*
PZ-67	381.48	32.52	348.96	*	*

Notes:
NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
* = Former coal pile area piezometers were removed from the monitoring network following the August 2024 semiannual monitoring event.

Table 4
Horizontal Gradient and Flow Velocity Calculations
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

Well Pair	August 2024					February 2025				
	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (ft)	Hydraulic Gradient (ft/ft)	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (ft)	Hydraulic Gradient (ft/ft)
BRGWA-5S to BRGWC-33S	429.27	400.81	28.46	5491	0.005	429.61	402.01	27.60	5402	0.005
PZ-4I to BRGWC-38S	447.85	406.80	41.05	4038	0.010	446.54	406.14	40.40	4157	0.010

Well Pair	Average Hydraulic Conductivity (K) (ft/day)	Estimated Effective Porosity (ne)	Average for Reporting Period		Overall Average	
			Hydraulic Gradient (ft/ft)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
BRGWA-5S to BRGWC-33S	5.78	0.20	0.005	0.15	0.22	80
PZ-4I to BRGWC-38S			0.010	0.29		

Notes:
ft – feet
ft/day = feet per day
ft/ft = feet per foot
ft/year = feet per year
K = average horizontal hydraulic conductivity
n_e = effective porosity - A value of 20% was selected based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996).
Flow path direction relative to the orientation of AP-E and illustrated on Figures 3 and 4 of associated report.
Groundwater flow velocity equation: V= (K* i)ne
Elevations shown are referenced to datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

Table 5
Summary of Groundwater Analytical Data
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

	Sample Location	BRGWA-2I	BRGWA-2I	BRGWA-2S	BRGWA-2S	BRGWA-5I	BRGWA-5I	BRGWA-5S	BRGWA-5S	BRGWA-6S	BRGWA-6S	BRGWC-17S	BRGWC-17S	BRGWC-33S
	Sample Date	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/27/2024	02/18/2025	08/28/2024	02/26/2025	08/28/2024
ANALYTE	**UNITS**													
APPENDIX III														
Boron	mg/L	< 0.00520	< 0.00520	< 0.00520	< 0.00520	< 0.00520	0.00591 J	0.00538 J	0.00548 J	< 0.00520	< 0.00520	0.0721	0.0756	1.25
Calcium	mg/L	12.4	13.8	5.45	5.76	15.9	16.9	17.2	16.5	4.19	4.11	46.4	49.9	369
Chloride	mg/L	2.16	2.09	2.17	2.09	3.88	4.05	3.49	3.34	2.28	2.25	4.95	5.96	71.7
Fluoride	mg/L	0.0342 J	0.0566 J	0.0426 J	0.0709 J	0.0365 J	0.0553 J	0.0516 J	0.0749 J	0.0334 J	0.0527 J	0.218	0.0663 J	0.204
pH, Field	SU	6.6	6.42	6.02	5.88	6.56	6.17	6.65	6.42	6.8	6.38	6.49	6.26	4.51
Sulfate	mg/L	2.58	3.07	0.444	0.341 J	2.67	3.16	0.652	0.543	0.465	0.468	188	206	1230
TDS	mg/L	82.0	84.0	51.0	44.0	107	106	101	92.0	57.0	46.0	421	400	1880
APPENDIX IV														
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.00577
Barium	mg/L	0.00493	0.00462 J	0.0132	0.0131 J	0.0314	0.0320 J	0.0362	0.0334 J	0.0159	0.0142 J	0.0502	0.0508 J	0.0511
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00209
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000807 J
Chromium	mg/L	0.00445 J	< 0.00300	0.00799 J	0.00765 J	0.00521 J	0.00451 J	0.00604 J	0.00705 J	0.0124	0.0123 J	0.0101	0.00685 J	< 0.00300
Cobalt	mg/L	0.00105	0.000715 J	0.000772 J	0.00111 J	0.000396 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.104
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.00584 J	0.00603 J	< 0.00300	< 0.00300	0.00337 J	< 0.00300	< 0.00300	< 0.00300	0.00322 J	< 0.00300	< 0.00300	< 0.00300	0.0102
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.000313 J	0.000375 J	< 0.000200	< 0.000200	0.00134	0.00141 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Combined Radium 226 + 228	pCi/L	0.864 U	1.02 U	1.40 U	0.747 U	3.62	0.475 U	0.236 U	1.30 U	1.64	2.33	1.78 U	5.67	2.68
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	0.00304 J	0.00261 J	0.0238
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.0342 J	0.0566 J	0.0426 J	0.0709 J	0.0365 J	0.0553 J	0.0516 J	0.0749 J	0.0334 J	0.0527 J	0.218	0.0663 J	0.204
Additional Parameters														
Bicarbonate Alkalinity as CaCO3	mg/L	67.8	69.9	38.0	40.8	79.5	79.3	79.8	77.7	27.8	26.1	62.9	72.3	2.70
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	67.8	69.9	38.0	40.8	79.5	79.3	79.8	77.7	27.8	26.1	62.9	72.3	2.70
Iron	mg/L	0.153	0.0731 J	0.0560 J	0.191	< 0.0330	< 0.0330	0.0458 J	0.0663 J	< 0.0330	0.0677 J	< 0.0330	< 0.0330	0.105
Ferrous (II) Iron	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/L	7.55	7.64	5.49	5.56	9.79	9.84	8.38	7.99	4.21	4.04	26.0	28.9	73.2
Manganese	mg/L	0.0107	0.0134	0.0293	0.0434	< 0.00100	0.00176 J	0.00602	0.00361 J	< 0.00100	0.00145 J	< 0.00100	0.00225 J	5.89
Nitrate	mg/L	0.321	NA	0.176	NA	0.368	NA	0.241	NA	0.713	NA	0.248	NA	< 0.0660
Potassium	mg/L	2.08	2.24	0.431	0.467	1.34	1.48	0.499	0.538	0.736	0.722	1.22	1.20	20.4
Sodium	mg/L	4.74	4.89	3.51	3.56	4.86	4.78	4.89	5.04	2.54	2.35	23.4	26.1	87.6
Sulfide	mg/L	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330

Table 5
Summary of Groundwater Analytical Data
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

	Sample Location	BRGWC-33S	BRGWC-34S	BRGWC-34S	BRGWC-35S	BRGWC-35S	BRGWC-36S	BRGWC-36S	BRGWC-37S	BRGWC-37S	BRGWC-38S	BRGWC-38S	PZ-13S	PZ-13S
	Sample Date	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/28/2024	02/26/2025	08/27/2024	02/26/2025	08/27/2024	02/26/2025	08/27/2024	02/26/2025
ANALYTE	**UNITS**													
APPENDIX III														
Boron	mg/L	2.04	1.88	2.19	2.10	2.58	1.04	1.21	< 0.00520	0.00753 J	1.31	1.15	< 0.00520	0.0140 J
Calcium	mg/L	443	95.9	127	59.5	67.8	41.0	42.5	3.64	3.77	26.7	20.9	14.0	22.0
Chloride	mg/L	96.1	15.5	23.0	6.21	6.55	7.81	8.26	1.90	1.97	6.53	6.76	3.03	3.27
Fluoride	mg/L	0.143	0.110	0.100	0.0609 J	0.0472 J	0.0861 J	0.0348 J	0.0777 J	0.0523 J	0.366	0.336	0.0701 J	0.0404 J
pH, Field	SU	4.94	6.21	5.97	5.87	5.94	5.8	5.64	5.82	5.73	4.96	4.23	5.67	5.55
Sulfate	mg/L	1580	308	400	251	266	201	212	0.279 J	0.348 J	233	199	66.6	106
TDS	mg/L	2440	562	609	479	490	389	375	40.0	23.0	370	329	140	208
APPENDIX IV														
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.00896 J	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.0543 J	0.0281	0.0329 J	0.0267	0.0291 J	0.0247	0.0267 J	0.0270	0.0264 J	0.0164	0.0170 J	0.0543	0.0520 J
Beryllium	mg/L	0.00181 J	0.000205 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00644	0.00515	0.000346 J	0.000457 J
Cadmium	mg/L	0.00100 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000341 J	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	0.00491 J	0.00553 J	0.00617 J	0.00674 J	< 0.00300	< 0.00300	0.00328 J	< 0.00300	0.0137	0.0132 J
Cobalt	mg/L	0.106	0.00494	0.00592 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.119	0.109	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.0102 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.0200	0.0178 J	< 0.00300	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	0.000131 J	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Combined Radium 226 + 228	pCi/L	4.05	3.15	4.95	1.36 U	3.29	2.45	4.50	2.01 U	5.37	0.945 U	3.64	4.31	3.29
Selenium	mg/L	0.0286 J	< 0.00150	< 0.00150	< 0.00150	< 0.00150	0.00159 J	0.00173 J	< 0.00150	< 0.00150	0.0180	0.0147 J	0.00217 J	0.00308 J
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.143	0.110	0.100	0.0609 J	0.0472 J	0.0861 J	0.0348 J	0.0777 J	0.0523 J	0.366	0.336	0.0701 J	0.0404 J
Additional Parameters														
Bicarbonate Alkalinity as CaCO3	mg/L	2.80	32.8	35.3	51.9	53.5	20.8	21.0	21.2	22.1	< 0.725	< 0.725	17.6	16.0
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	2.80	32.8	35.3	51.9	53.5	20.8	21.0	21.2	22.1	< 0.725	< 0.725	17.6	16.0
Iron	mg/L	0.0785 J	0.100 J	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330	< 0.0330
Ferrous (II) Iron	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/L	98.0	22.3	27.5	31.0	33.9	16.7	17.4	1.34	1.29	27.9	23.9	8.65	12.6
Manganese	mg/L	5.97	3.71	4.83	0.0109	0.0107	0.00218 J	0.00188 J	< 0.00100	0.00183 J	1.26	1.12	0.00185 J	0.00179 J
Nitrate	mg/L	NA	0.0378 J	NA	< 0.132 H	NA	0.535	NA	0.301	NA	0.145 J	NA	0.260	NA
Potassium	mg/L	24.5	3.89	4.45	3.77	4.35	3.36	3.59	1.95	2.00	5.23	4.93	4.23	5.12
Sodium	mg/L	127	22.7	25.2	17.4	19.5	34.8	37.2	4.50	4.54	32.8	25.5	11.7	11.6
Sulfide	mg/L	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA

Table 5
Summary of Groundwater Analytical Data
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

	Sample Location	PZ-52D	PZ-52D	PZ-53D	PZ-53D	PZ-70I	PZ-70I
	Sample Date	08/28/2024	02/26/2025	08/27/2024	02/26/2025	08/28/2024	02/26/2025
ANALYTE	UNITS						
APPENDIX III							
Boron	mg/L	0.0751	0.0842	0.989	1.21	0.898	1.10
Calcium	mg/L	44.5	48.6	80.0	87.6	31.4	32.3
Chloride	mg/L	4.15	4.25	4.37	4.37	4.99	5.31
Fluoride	mg/L	2.04	2.03	0.103	0.0608 J	< 0.0330	< 0.0330
pH, Field	SU	7.66	7.58	6.94	6.99	5.28	5.35
Sulfate	mg/L	72.9	72.2	294	309	128	139
TDS	mg/L	303	276	521	512	259	258
APPENDIX IV							
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.0156	0.0163 J	0.0535	0.0523 J	0.0198	0.0202 J
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000344 J	0.000370 J
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	0.000337 J	0.000373 J	< 0.000300	< 0.000300	0.000686 J	0.000507 J
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.0163	0.0182 J	0.0190	0.0182 J	0.00382 J	0.00401 J
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	0.00101	0.00173
Molybdenum	mg/L	0.00922	0.00804 J	0.00191	0.00158 J	< 0.000200	< 0.000200
Combined Radium 226 + 228	pCi/L	5.34	3.82	3.22	4.25	1.25 U	2.41
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	0.00691	0.00633 J
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	2.04	2.03	0.103	0.0608 J	< 0.0330	< 0.0330
Additional Parameters							
Bicarbonate Alkalinity as CaCO3	mg/L	172	174	50.3	50.3	17.1	16.7
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	172	174	50.3	50.3	17.1	16.7
Iron	mg/L	< 0.0330	< 0.0330	0.218	0.152	0.0701 J	< 0.0330
Ferrous (II) Iron	mg/L	0	0	0.5	0	0	0
Magnesium	mg/L	10.6	12.2	20.2	20.8	10.6	11.1
Manganese	mg/L	0.00303 J	0.00289 J	0.451	0.433	0.249	0.205
Nitrate	mg/L	0.343	NA	< 0.0330	NA	0.113	NA
Potassium	mg/L	4.72	5.23	6.42	6.54	3.93	4.14
Sodium	mg/L	42.0	43.1	42.1	40.0	18.2	18.4
Sulfide	mg/L	< 0.0330	NA	< 0.0330	NA	< 0.0330	NA

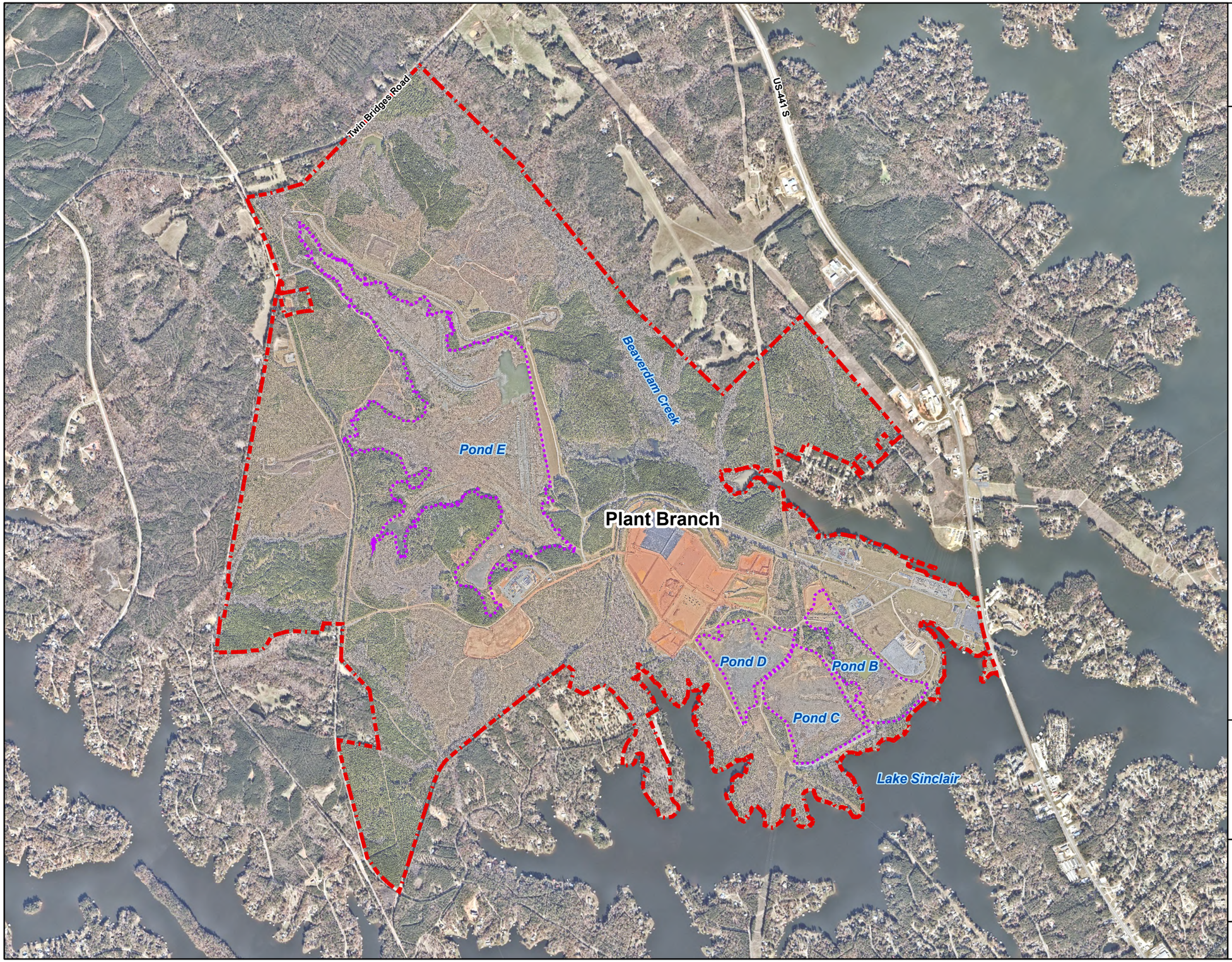
Notes:
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
TDS - total dissovled solids
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
H - Sample analysis performed beyond the recognized method holding time.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
Metals were analyzed by EPA Method 6020B and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
The pH value presented was recorded at the time of sample collection in the field.

Table 6
Summary of Background Concentrations and Groundwater Protection Standards
Georgia Power Company
Plant Branch - Ash Pond E
Putnam County, GA

Analyte	Units	MCL	CCR-Rule Specified	Background		GWPS
				August 2024	February 2025	
Antimony	mg/L	0.006		0.003	0.003	0.006
Arsenic	mg/L	0.01		0.005	0.005	0.01
Barium	mg/L	2		0.063	0.063	2
Beryllium	mg/L	0.004		0.0005	0.0005	0.004
Cadmium	mg/L	0.005		0.001	0.001	0.005
Chromium	mg/L	0.1		0.016	0.016	0.1
Cobalt	mg/L		0.006	0.0034	0.0034	0.006
Combined Radium 226 + 228	pCi/L	5		2.07	2.08	5
Fluoride	mg/L	4		0.29	0.29	4
Lead	mg/L		0.015	0.002	0.002	0.015
Lithium	mg/L		0.04	0.089	0.089	0.089
Mercury	mg/L	0.002		0.00021	0.00021	0.002
Molybdenum	mg/L		0.1	0.008	0.008	0.1
Selenium	mg/L	0.05		0.005	0.005	0.05
Thallium	mg/L	0.002		0.001	0.002	0.002

Notes:
CCR - Coal Combustion Residuals
GWPS- Groundwater Protection Standard
MCL - Maximum Contaminant Level
mg/L = miligrams per liter
pCi/L = picocuries per liter
The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).
Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL or RSL.

FIGURES



N

LEGEND

Plant Branch Property Boundary

Approximate Ash Pond Boundary



Notes:
1. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
2. Property Boundary Provided by Southern Company Services.
3. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 2,000 4,000

Scale in Feet

SITE LOCATION MAP

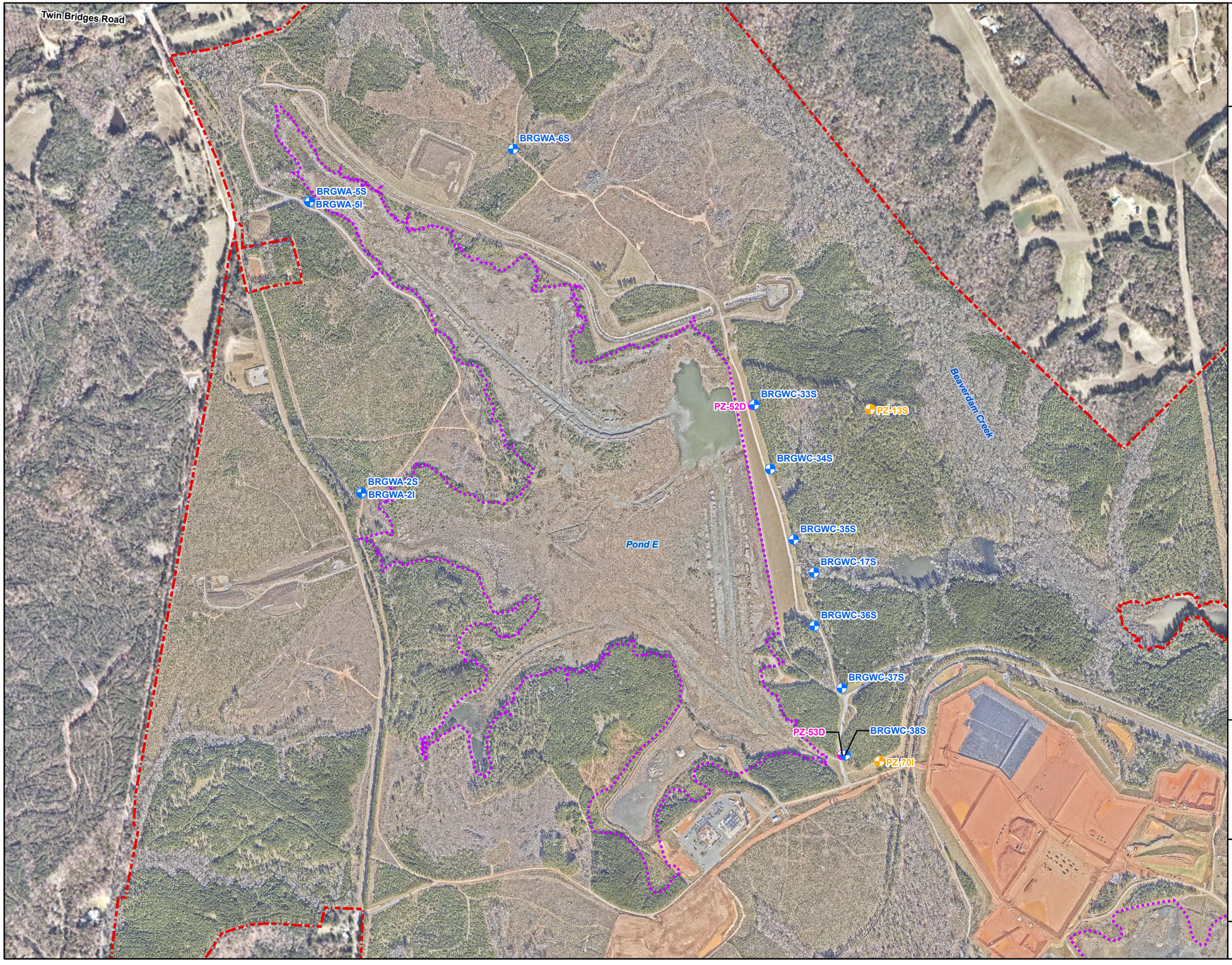
GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 1



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Property Boundary Provided by Southern Company Services.
2. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,000 2,000
Scale in Feet

MONITORING WELL NETWORK MAP

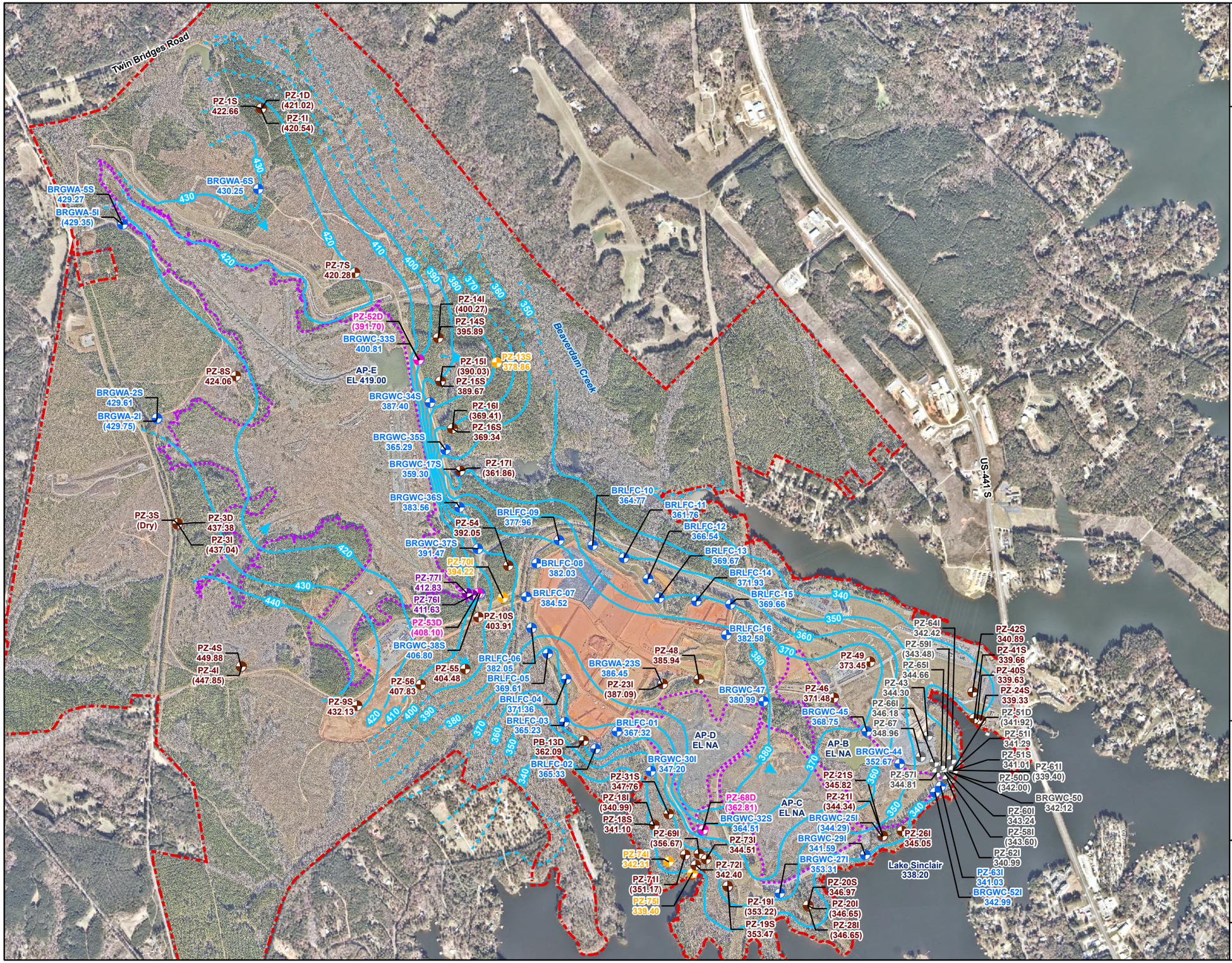
GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 2



N

LEGEND

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

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

Notes:
1. Water level elevation recorded on August 26, 2024, for semiannual groundwater event.
2. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
3. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
4. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
5. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
6. Property Boundary Provided by Southern Company Services.
7. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,500 3,000

Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2024

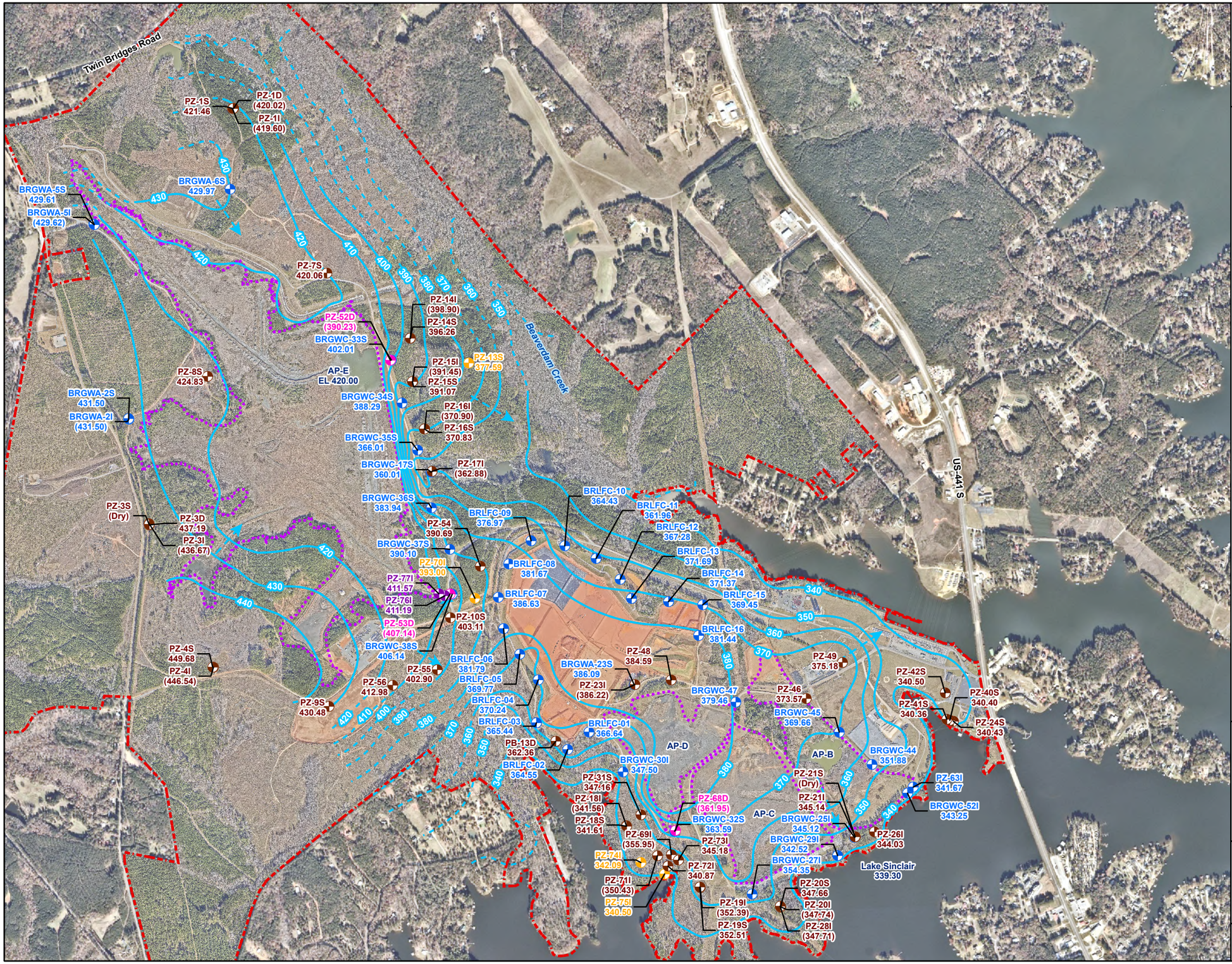
GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 3



N

LEGEND

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

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

Notes:
1. BRGWC-50, PZ-43, PZ-50D, PZ-51I, PZ-51S, PZ51D, PZ-57I, PZ-58I, PZ-59I, PZ-60I, PZ61I, PZ-62I, PZ-64I, PZ-65I, PZ-66I, and PZ-67 have been removed from AP-BCD groundwater monitoring network.
2. Water level elevation recorded on February 17, 2025, for semiannual groundwater event.
3. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
4. Groundwater iso-contours based on linear interpolation and extrapolation from known groundwater elevation data, and topographic elevations.
5. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
6. Coordinate System: NAD 1983 State Plane Georgia West_FIPS (U.S. Feet).
7. Property Boundary Provided by Southern Company Services.
8. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,500 3,000
Scale in Feet

POTENTIOMETRIC SURFACE CONTOUR MAP - FEBRUARY 2025

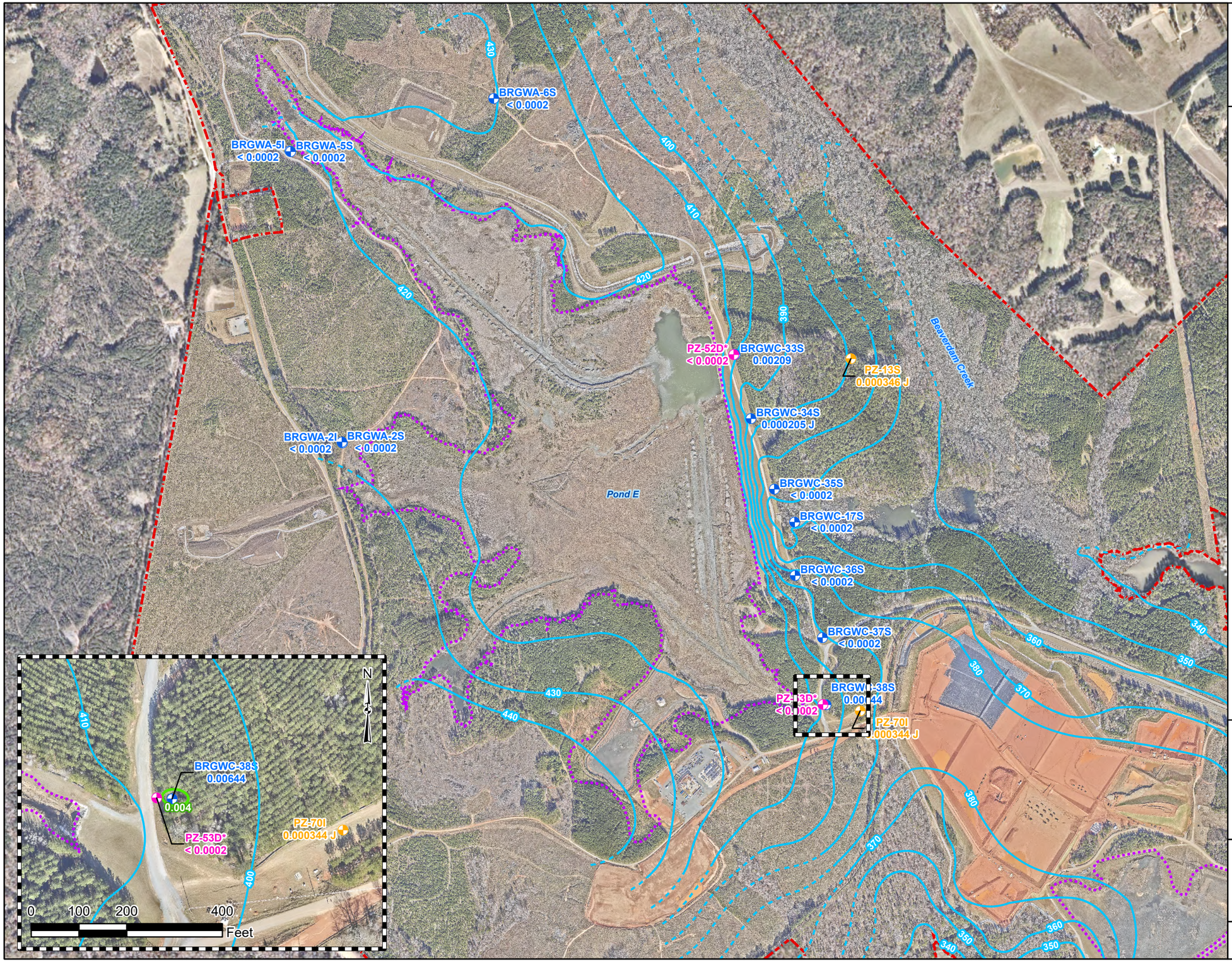
GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 4



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Groundwater Elevation Iso-Contour (August 2024)
- Groundwater Elevation Iso-Contour (Inferred)(August 2024)
- 0.004 Beryllium GWPS Iso-Concentration Contour (mg/L)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2024, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 26, 2024.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standard (GWPS) for beryllium is 0.004 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,000 2,000
Scale in Feet

ISO-CONCENTRATION MAP, BERYLLIUM - AUGUST 2024

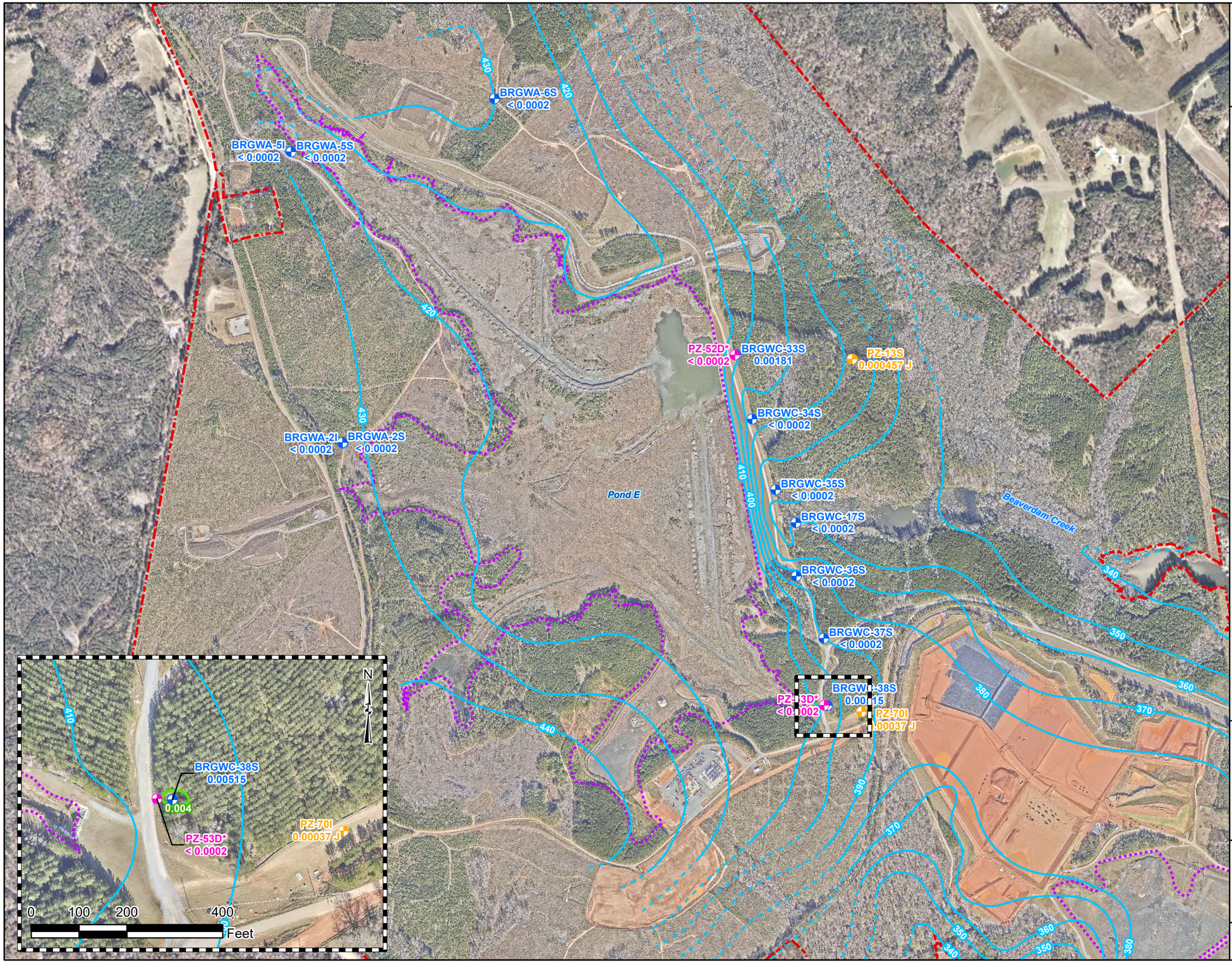
GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 5



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Groundwater Elevation Iso-Contour (February 2025)
- Groundwater Elevation Iso-Contour (Inferred)(February 2025)
- 0.004 Beryllium GWPS Iso-Concentration Contour (mg/L)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the February 2025, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on February 17, 2025.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standards (GWPS) for beryllium is 0.0040 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 1,000 2,000
Scale in Feet

ISO-CONCENTRATION MAP, BERYLLIUM - FEBRUARY 2025

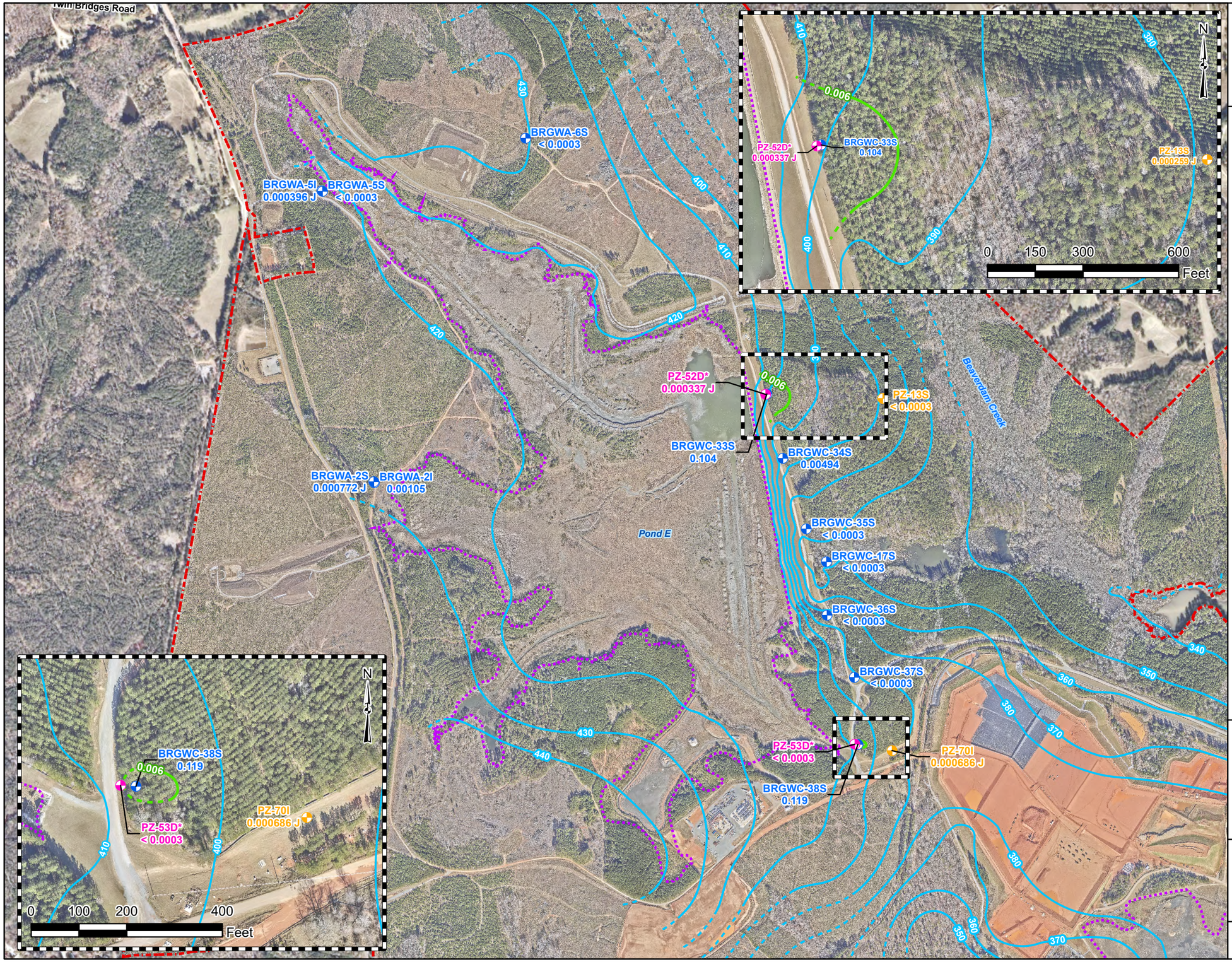
GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 6



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Groundwater Elevation Iso-Contour (August 2024)
- Groundwater Elevation Iso-Contour (Inferred)(August 2024)
- 0.006 Cobalt GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2024, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on August 26, 2024.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standard (GWPS) for cobalt is 0.006 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

ISO-CONCENTRATION MAP, COBALT - AUGUST 2024

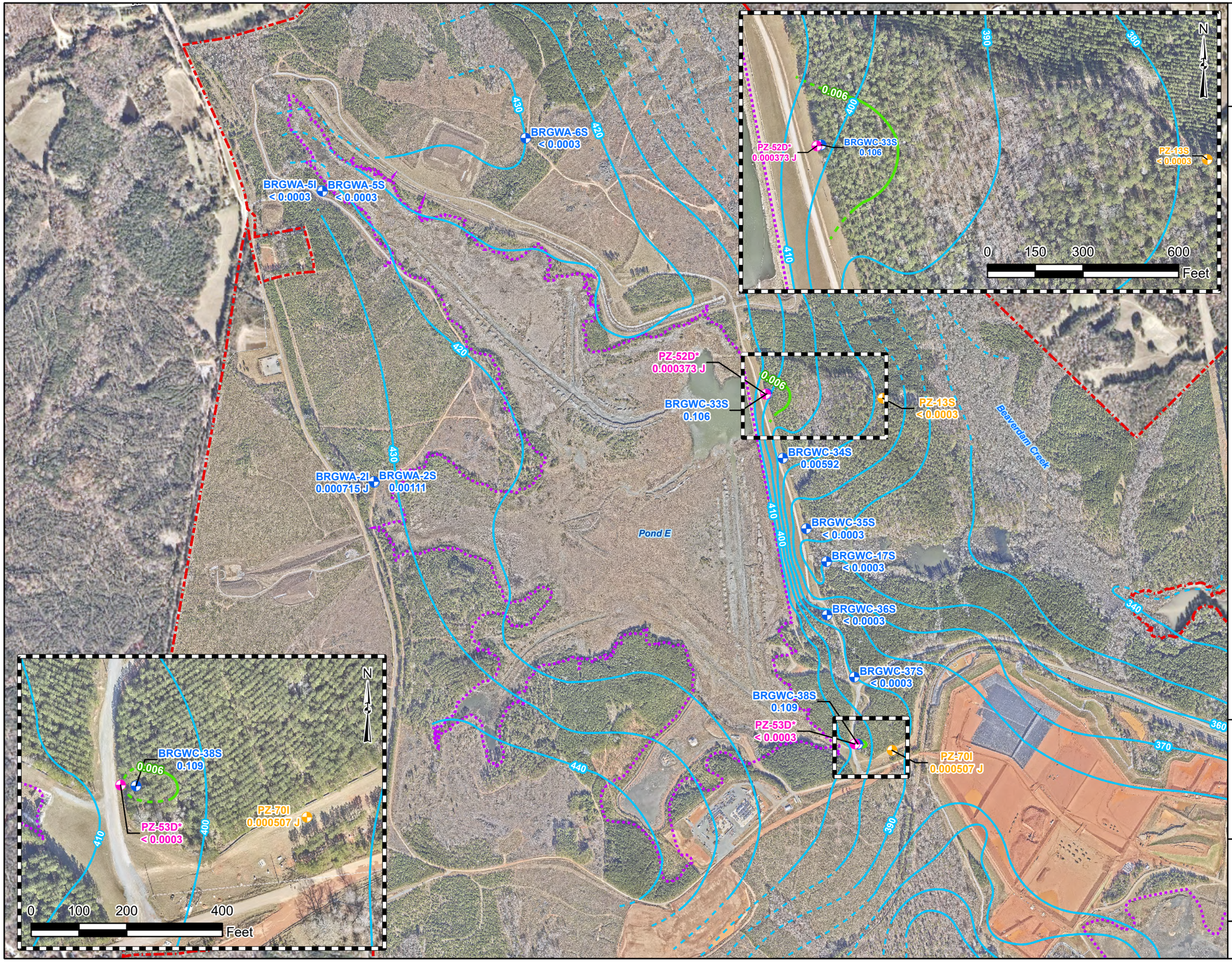
GEORGIA POWER COMPANY
PLANT BRANCH AP-E
PUTNAM COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 7



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Groundwater Elevation Iso-Contour (February 2025)
- Groundwater Elevation Iso-Contour (Inferred)(February 2025)
- 0.006 Cobalt GWPS Iso-Concentration Contour (mg/L) (dashed where inferred)
- Plant Branch Property Boundary
- Approximate Ash Pond Boundary

Notes:
1. Concentration data from groundwater samples collected during the February 2025, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on February 17, 2025.
4. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
5. The Groundwater Protection Standards (GWPS) for cobalt is 0.006 mg/L.
6. J - Estimated value.
7. * - Data reported was not used to generate the iso-concentration contour.
8. Property Boundary Provided by Southern Company Services.
9. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

ISO-CONCENTRATION MAP, COBALT - FEBRUARY 2025

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JULY 2025

FIGURE 8

APPENDIX A

Well Abandonment Report

Georgia Power

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL ABANDONMENT REPORT

PLANT BRANCH ASH POND E (AP-E)

Prepared by

Geosyntec consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW11514

June 2025

Georgia Power

CERTIFICATION PAGE

I hereby certify that this *Well Abandonment Report – Plant Branch Ash Pond E (AP-E)* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants, Inc. and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action."



Date: June 13, 2025
Joseph Ivanowski, P.G.
Georgia Professional Geologist No. 2140
Principal Geologist
Geosyntec Consultants

TABLE OF CONTENTS

1. INTRODUCTION 1

2. WELL ABANDONMENT 2

3. REFERENCES 3

LIST OF TABLES

Table 1 Summary Details of Abandoned Piezometers

LIST OF FIGURES

Figure 1 Temporary Piezometer Abandonment Map

LIST OF APPENDICES

Attachment A Piezometer Abandonment Logs

LIST OF ACRONYMS

AP	Ash Pond
CCR	coal combustion residual
CFS	Civil Field Services
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
PVC	polyvinyl chloride
SCS	Southern Company Services

1. INTRODUCTION

Georgia Power Company's (Georgia Power) Plant Branch (Plant) is located in Putnam County near Milledgeville and Eatonton, Georgia. Over the course of power generation at the Plant, five Coal Combustion Residuals (CCR) ponds, identified as Ash Ponds A, B, C, D, and E were utilized. This report provides details regarding the piezometer abandonment activities in the vicinity of Ash Pond E (AP-E) conducted on April 23, 2025. Temporary piezometers (PZ-76I and PZ-77I) were installed to provide additional data for the geochemical characterization and remedy selection efforts at the Site. As these efforts have been completed, the temporary piezometers are no longer required and have been abandoned and completed in general accordance with the *Manual for Groundwater Monitoring* (GA EPD, 1991) and the *Georgia Water Well Standards Act* (OCGA § 12-5-120 through 138). Abandonment activities were performed by Southern Company Services (SCS) Civil Field Services (CFS).

2. PIEZOMETER ABANDONMENT

A total of two temporary piezometers (PZ-76I and PZ-77I) were abandoned near AP-E by CFS. The work was completed under the supervision of a Geosyntec Consultants, Inc. (Geosyntec) staff member with direction and oversight from a Geosyntec professional geologist licensed in the State of Georgia, and performed by a Georgia-licensed well driller.

The locations of the abandoned piezometers are presented on **Figure 1**, and the well construction and abandonment details are summarized in **Table 1**. The two temporary piezometers were constructed of 2-inch diameter polyvinyl chloride (PVC) well screen and riser installed in a 6-inch diameter borehole. Both PZ-76I and PZ-77I were screened in saprolite. The water level and total well depth were measured prior to abandonment at each piezometer. The piezometers were abandoned by placing Aquaguard bentonite grout within the PVC well casings. After the well casings were grouted, the top ten feet of well material was removed from both PZ-76I and PZ-77I. Final grouting was conducted by pouring Aquaguard bentonite grout into the borehole, grout was then brought to within six inches of ground surface, and native material was used to restore the area.

PZ-76I and PZ-77I were originally installed as temporary piezometers and did not have protective well coverings, concrete pads, or bollards. Well abandonment forms for the piezometers are provided in **Attachment A**.

3. REFERENCES

Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.

Official Code of Georgia Annotated, 1985. *O.C.G.A. § 12-5-120. Water Well Standards Act of 1985*.

TABLE

Table 1
Summary Details of Abandoned Piezometers
AP-E, Putnam County, Georgia

Well ID	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [2] (ft)	Well Depth (ft BTOC) [3]	Depth to Water (ft BTOC)	Abandonment Date	Estimated Grout Volume (gal)	Grout Volume Used (gal)
PZ-76I	8/2/2023	1164366.20	2554903.80	430.89	43.94	22.35	4/23/2025	20	20
PZ-77I	8/1/2023	1164396.90	2554810.04	430.31	43.02	21.54	4/23/2025	20	20

Notes:
ft = feet.
ft BTOC = feet below top of casing.
gal = US liquid gallon.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).
(3) Total well depth measured prior to well abandonment.

FIGURE



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Abandoned Temporary Piezometer
- Approximate Ash Pond Boundary



Notes:
1. Temporary Piezometer PZ-76I and PZ-77I were abandoned March to April 2025.
2. Aerial: Nearmap Imagery, December 2024 and Georgia Power Company, January 2025.

0 200 400
Scale in Feet

TEMPORARY PIEZOMETER ABANDONMENT MAP

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JUNE 2025

FIGURE 1

APPENDIX A

Piezometer Abandonment Logs

Well Abandonment Field Form

Project Name: Plant Branch Well Abandonment Well ID: PZ-76I

Project No.: GW11516 Drilling Co.: SCS/CFS/S&ME

Geosyntec Rep: Thomas Kessler Driller: Jim Castleberry

Date of Abandonment: 4/23/25

Abandonment Method (i.e. Grout in Place, Overdrill and Grout, etc.): Chip screen interval, grout in place, remove 10' of casing, grout, and finish with native

Overdrill Method (i.e. Sonic, Hollow Stem Auger, Air Rotary, etc.): N/A

Guide Rod Used During Overdrill (yes or no): No

Diameter of Overdrill Casing/Auger/Bit: N/A

Total Depth of Well: 43.94 ft BTOC Total Depth of Overdrill: N/A ft bgs

Length of Well Casing and Screen Removed: 10' casing

Total Volume of Grout Used:

Initial Grouting of Well Casing: 20 gallons

Final Grouting of Overdrilled Hole: N/A gallons

Grout Mixture:

2/3 Bags of Bentonite Grout (50 lbs. each)

10 Gallons of Water Used

Cement Brand: N/A Bentonite Brand: Aquaguard

Grout Settlement After 24 Hours: N/A

Notes:

Water Level prior to abandonment: 22.35 ft BTOC

Well Abandonment Field Form

Project Name: Plant Branch Well Abandonment Well ID: PZ-77I

Project No.: GW11516 Drilling Co.: SCS/CFS/S&ME

Geosyntec Rep: Thomas Kessler Driller: Jim Castleberry

Date of Abandonment: 4/23/25

Abandonment Method (i.e. Grout in Place, Overdrill and Grout, etc.): Chip screen interval, grout in place, remove 10' of casing, grout, and finish with native

Overdrill Method (i.e. Sonic, Hollow Stem Auger, Air Rotary, etc.): N/A

Guide Rod Used During Overdrill (yes or no): No

Diameter of Overdrill Casing/Auger/Bit: N/A

Total Depth of Well: 43.02 ft BTOC Total Depth of Overdrill: N/A ft bgs

Length of Well Casing and Screen Removed: 10' casing

Total Volume of Grout Used:

Initial Grouting of Well Casing: 20 gallons

Final Grouting of Overdrilled Hole: N/A gallons

Grout Mixture:

2/3 Bags of Bentonite Grout (50 lbs. each)

10 Gallons of Water Used

Cement Brand: N/A Bentonite Brand: Aquaguard

Grout Settlement After 24 Hours: N/A

Notes:

Water Level prior to abandonment: 21.54 ft BTOC

APPENDIX B

Well Maintenance and Repair Documentation

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Location/Identification			
Well ID:	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-12S	Yes	Yes	No	Yes
BRGWA-12I	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-50	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
PZ-44	Yes	Yes	No	Yes
PZ-50D	Yes	Yes	No	Yes
PZ-51S	Yes	Yes	No	Yes
PZ-51I	Yes	Yes	No	Yes
PZ-51D	Yes	Yes	No	Yes
PZ-57I	Yes	Yes	No	Yes
PZ-58I	Yes	Yes	No	Yes
PZ-59I	Yes	Yes	No	Yes
PZ-60I	Yes	Yes	No	Yes
PZ-61I	Yes	Yes	No	Yes
PZ-62I	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-64I	Yes	Yes	No	Yes
PZ-65I	Yes	Yes	No	Yes
PZ-66I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Protective Casing				
Well ID:	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-12S	Yes	Yes	Yes	Yes	Yes
BRGWA-12I	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-12S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-12I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-50	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-50D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-51D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-58I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-59I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-60I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-61I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-62I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-64I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-65I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-66I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-12S	
BRGWA-12I	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-50	
BRGWC-52I	
PZ-44	
PZ-50D	
PZ-51S	
PZ-51I	
PZ-51D	
PZ-57I	
PZ-58I	
PZ-59I	
PZ-60I	
PZ-61I	
PZ-62I	
PZ-63I	
PZ-64I	
PZ-65I	
PZ-66I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79I	

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-11S	Yes	Yes	No	Yes
PZ-12D	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
PZ-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-39	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-11S	
PZ-12D	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
PZ-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-39	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-43	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-67	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-43	NA	NA	NA	NA	NA
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	NA	NA
PZ-77I	NA	NA	NA	NA	NA

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-43	NA	NA	NA	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-67	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	Yes	Yes	Yes
PZ-77I	NA	NA	NA	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 08/26/2024

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-43	PVC stick up well
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-67	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	
PZ-76I	PVC stick up well
PZ-77I	PVC stick up well

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWA-23S	Yes	Yes	No	Yes
BRGWC-25I	Yes	Yes	No	Yes
BRGWC-27I	Yes	Yes	No	Yes
BRGWC-29I	Yes	Yes	No	Yes
BRGWC-30I	Yes	Yes	No	Yes
BRGWC-32S	Yes	Yes	No	Yes
BRGWC-45	Yes	Yes	No	Yes
BRGWC-47	Yes	Yes	No	Yes
BRGWC-52I	Yes	Yes	No	Yes
PZ-44	Yes	Yes	No	Yes
PZ-63I	Yes	Yes	No	Yes
PZ-68D	Yes	Yes	No	Yes
PZ-74I	Yes	Yes	No	Yes
PZ-75I	Yes	Yes	No	Yes
PZ-79	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-23S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-25I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-27I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-29I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-30I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-32S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-45	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-47	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-52I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-44	Yes	Yes	Yes	Yes	Yes	Yes
PZ-63I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-68D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-74I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-75I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-79	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWA-23S	
BRGWC-25I	
BRGWC-27I	
BRGWC-29I	
BRGWC-30I	
BRGWC-32S	
BRGWC-45	
BRGWC-47	
BRGWC-52I	
PZ-44	Well renamed to BRGWC-44, new tag will be added
PZ-63I	
PZ-68D	
PZ-74I	
PZ-75I	
PZ-79	

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
BRGWA-2S	Yes	Yes	No	Yes
BRGWA-2I	Yes	Yes	No	Yes
BRGWA-5S	Yes	Yes	No	Yes
BRGWA-5I	Yes	Yes	No	Yes
BRGWA-6S	Yes	Yes	No	Yes
BRGWC-17S	Yes	Yes	No	Yes
BRGWC-33S	Yes	Yes	No	Yes
BRGWC-34S	Yes	Yes	No	Yes
BRGWC-35S	Yes	Yes	No	Yes
BRGWC-36S	Yes	Yes	No	Yes
BRGWC-37S	Yes	Yes	No	Yes
BRGWC-38S	Yes	Yes	No	Yes
PZ-13S	Yes	Yes	No	Yes
PZ-52D	Yes	Yes	No	Yes
PZ-53D	Yes	Yes	No	Yes
PZ-70I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
BRGWA-2S	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
BRGWA-2S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-2I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-5I	Yes	Yes	Yes	Yes	Yes	Yes
BRGWA-6S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-17S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-33S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-34S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-35S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-36S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-37S	Yes	Yes	Yes	Yes	Yes	Yes
BRGWC-38S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-52D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-53D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-70I	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
BRGWA-2S	
BRGWA-2I	
BRGWA-5S	
BRGWA-5I	
BRGWA-6S	
BRGWC-17S	
BRGWC-33S	
BRGWC-34S	
BRGWC-35S	
BRGWC-36S	
BRGWC-37S	
BRGWC-38S	
PZ-13S	
PZ-52D	
PZ-53D	
PZ-70I	

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-1S	Yes	Yes	No	Yes
PZ-1I	Yes	Yes	No	Yes
PZ-1D	Yes	Yes	No	Yes
PZ-3S	Yes	Yes	No	Yes
PZ-3I	Yes	Yes	No	Yes
PZ-3D	Yes	Yes	No	Yes
PZ-4S	Yes	Yes	No	Yes
PZ-4I	Yes	Yes	No	Yes
PZ-7S	Yes	Yes	No	Yes
PZ-8S	Yes	Yes	No	Yes
PZ-9S	Yes	Yes	No	Yes
PZ-10S	Yes	Yes	No	Yes
PZ-11S	Yes	Yes	No	Yes
PZ-12D	Yes	Yes	No	Yes
PZ-14S	Yes	Yes	No	Yes
PZ-14I	Yes	Yes	No	Yes
PZ-15S	Yes	Yes	No	Yes
PZ-15I	Yes	Yes	No	Yes
PZ-16S	Yes	Yes	No	Yes
PZ-16I	Yes	Yes	No	Yes
PZ-17I	Yes	Yes	No	Yes
PZ-18S	Yes	Yes	No	Yes
PZ-18I	Yes	Yes	No	Yes
PZ-19S	Yes	Yes	No	Yes
PZ-19I	Yes	Yes	No	Yes
PZ-20S	Yes	Yes	No	Yes
PZ-20I	Yes	Yes	No	Yes
PZ-21S	Yes	Yes	No	Yes
PZ-21I	Yes	Yes	No	Yes
PZ-23I	Yes	Yes	No	Yes
PZ-24S	Yes	Yes	No	Yes
PZ-26I	Yes	Yes	No	Yes
PZ-28I	Yes	Yes	No	Yes
PZ-31S	Yes	Yes	No	Yes
PZ-39	Yes	Yes	No	Yes
PZ-40S	Yes	Yes	No	Yes
PZ-41S	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-11S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-12D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-24S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-26I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-39	Yes	Yes	Yes	Yes	Yes	Yes
PZ-40S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-41S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-1S	
PZ-1I	
PZ-1D	
PZ-3S	
PZ-3I	
PZ-3D	
PZ-4S	
PZ-4I	
PZ-7S	
PZ-8S	
PZ-9S	
PZ-10S	
PZ-11S	
PZ-12D	
PZ-14S	
PZ-14I	
PZ-15S	
PZ-15I	
PZ-16S	
PZ-16I	
PZ-17I	
PZ-18S	
PZ-18I	
PZ-19S	
PZ-19I	
PZ-20S	
PZ-20I	
PZ-21S	
PZ-21I	
PZ-23I	
PZ-24S	
PZ-26I	
PZ-28I	
PZ-31S	
PZ-39	
PZ-40S	
PZ-41S	

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-42S	Yes	Yes	No	Yes
PZ-46	Yes	Yes	No	Yes
PZ-48	Yes	Yes	No	Yes
PZ-49	Yes	Yes	No	Yes
PZ-54	Yes	Yes	No	Yes
PZ-55	Yes	Yes	No	Yes
PZ-56	Yes	Yes	No	Yes
PZ-69I	Yes	Yes	No	Yes
PZ-71I	Yes	Yes	No	Yes
PZ-72I	Yes	Yes	No	Yes
PZ-73I	Yes	Yes	No	Yes
PZ-76I	Yes	Yes	No	Yes
PZ-77I	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-42S	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	NA	NA
PZ-77I	NA	NA	NA	NA	NA

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-42S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-46	Yes	Yes	Yes	Yes	Yes	Yes
PZ-48	Yes	Yes	Yes	Yes	Yes	Yes
PZ-49	Yes	Yes	Yes	Yes	Yes	Yes
PZ-54	Yes	Yes	Yes	Yes	Yes	Yes
PZ-55	Yes	Yes	Yes	Yes	Yes	Yes
PZ-56	Yes	Yes	Yes	Yes	Yes	Yes
PZ-69I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-71I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-72I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-73I	Yes	Yes	Yes	Yes	Yes	Yes
PZ-76I	NA	NA	NA	Yes	Yes	Yes
PZ-77I	NA	NA	NA	Yes	Yes	Yes

Well Inspection

Site Name: Plant Branch

Date: 02/17/2025

Permit Number: APL1171, APL1172

Field Conditions: Sunny, Dry

Well ID:	Corrective actions as needed, by date:
PZ-42S	
PZ-46	
PZ-48	
PZ-49	
PZ-54	
PZ-55	
PZ-56	
PZ-69I	
PZ-71I	
PZ-72I	
PZ-73I	
PZ-76I	PVC stick up well
PZ-77I	PVC stick up well

APPENDIX C

Analytical Laboratory Results and Field Sampling Forms

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683169

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683169001	BRA-BRGWC-38S	Ground Water	08/27/24 12:07	08/28/24 08:27
683169002	BRA-PZ-53D	Ground Water	08/27/24 14:00	08/28/24 08:27
683169003	BRA-PZ-13S	Ground Water	08/27/24 13:51	08/28/24 08:27
683169004	BRA-BRGWC-37S	Ground Water	08/27/24 16:41	08/28/24 08:27
683169005	BRA-APE-FB-07	Water	08/27/24 15:40	08/28/24 08:27
683169006	BRA-APE-FD-04	Ground Water	08/27/24 12:00	08/28/24 08:27

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	29-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	28-AUG-2024

EPA 300.0	29-AUG-2024
SM 2320B	28-AUG-2024
SM 2540C	03-SEP-2024
SM 4500-S (2-) D	29-AUG-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	30-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683169 GEL Work Order: 683169

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Hannah Bowden

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-38S	Project:	GPCC00101
Sample ID:	683169001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:07		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.53	0.0670	0.200	mg/L		1	CH6	08/28/24	1854	2664372	1
Fluoride		0.366	0.0330	0.100	mg/L		1					
Sulfate		233	2.66	8.00	mg/L		20	CH6	08/29/24	0816	2664372	2
Nitrate-N	J	0.145	0.0660	0.200	mg/L		2	CH6	08/29/24	0745	2664372	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1307	2664552	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.31	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1148	2664353	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1544	2664353	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0164	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00644	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000341	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00328	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.119	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0200	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.23	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0180	0.00150	0.00500	mg/L	1.00	1					
Sodium		32.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		1.26	0.0100	0.0500	mg/L	1.00	10	BAJ	09/07/24	1600	2664353	7
Calcium		26.7	0.0800	0.200	mg/L	1.00	1	BAJ	09/08/24	1138	2664353	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		370	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	10

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-38S
Sample ID: 683169001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1633	2664341	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-53D	Project:	GPCC00101
Sample ID:	683169002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 14:00		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.37	0.0670	0.200	mg/L		1	CH6	08/28/24	1924	2664372	1
Fluoride		0.103	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		294	3.33	10.0	mg/L		25	CH6	08/29/24	0847	2664372	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1318	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.989	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1129	2664353	4
Calcium		80.0	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1617	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0535	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.218	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0190	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.2	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.451	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00191	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.42	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		521	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-53D
Sample ID: 683169002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		50.3	0.725	2.00	mg/L			JW2	08/28/24	1633	2664341	8
Bicarbonate alkalinity (CaCO3)		50.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-13S	Project:	GPCC00101
Sample ID:	683169003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 13:51		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.03	0.0670	0.200	mg/L		1	CH6	08/28/24	1955	2664372	1
Fluoride	J	0.0701	0.0330	0.100	mg/L		1					
Sulfate		66.6	0.665	2.00	mg/L		5	CH6	08/29/24	0949	2664372	2
Nitrate-N		0.260	0.0660	0.200	mg/L		2	CH6	08/29/24	0918	2664372	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1320	2664552	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1125	2664353	5
Calcium		14.0	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1627	2664353	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000346	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0137	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.65	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00185	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.23	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00217	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		140	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	8

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-13S
Sample ID: 683169003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		17.6	0.725	2.00	mg/L			JW2	08/28/24	1635	2664341	9
Bicarbonate alkalinity (CaCO3)		17.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-37S
Sample ID: 683169004
Matrix: WG
Collect Date: 27-AUG-24 16:41
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.90	0.0670	0.200	mg/L		1	CH6	08/28/24	2026	2664372	1
Fluoride	J	0.0777	0.0330	0.100	mg/L		1					
Sulfate	J	0.279	0.133	0.400	mg/L		1					
Nitrate-N		0.301	0.0660	0.200	mg/L		2	CH6	08/29/24	1020	2664372	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1322	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1126	2664353	4
Calcium		3.64	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1629	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0270	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.34	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.50	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		40.0	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-37S
Sample ID: 683169004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.2	0.725	2.00	mg/L			JW2	08/28/24	1636	2664341	8
Bicarbonate alkalinity (CaCO3)		21.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FB-07	Project:	GPCC00101
Sample ID:	683169005	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	27-AUG-24 15:40		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/28/24	2057	2664372	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1323	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1121	2664353	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1526	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 683169005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1638	2664341	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FD-04	Project:	GPCC00101
Sample ID:	683169006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:00		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		64.9	0.665	2.00	mg/L		5	CH6	08/29/24	1152	2664372	1
Chloride		3.00	0.0670	0.200	mg/L		1	CH6	08/28/24	2128	2664372	2
Fluoride	J	0.0675	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0514	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1325	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1632	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0563	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000348	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0138	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.68	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00183	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.28	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00206	0.00150	0.00500	mg/L	1.00	1					
Sodium		12.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1128	2664353	5
Calcium		14.2	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		159	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 683169006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.8	0.725	2.00	mg/L			JW2	08/28/24	1639	2664341	8
Bicarbonate alkalinity (CaCO3)		16.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 12, 2024

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

Contact: **Joju Abraham**

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664372										
QC1205838481 683164003 DUP										
Chloride		62.5		62.8	mg/L	0.488		(0%-20%)	CH6	08/29/24 00:33
Fluoride		1.07		1.06	mg/L	1.1	^	(+/-0.500)		08/29/24 04:09
Nitrate-N		22.1		22.2	mg/L	0.194		(0%-20%)		08/29/24 00:33
Sulfate		354		354	mg/L	0.109		(0%-20%)		08/29/24 06:43
QC1205838480 LCS										
Chloride	5.00			4.72	mg/L		94.4	(90%-110%)		08/29/24 00:02
Fluoride	2.50			2.35	mg/L		94	(90%-110%)		
Nitrate-N	2.50			2.38	mg/L		95.2	(90%-110%)		
Sulfate	10.0			9.45	mg/L		94.5	(90%-110%)		
QC1205838479 MB										
Chloride			U	ND	mg/L					08/28/24 23:31
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664372										
QC1205838482 683164003 PS										
Chloride	5.00	6.25		11.7	mg/L		109	(90%-110%)	CH6	08/29/24 01:04
Fluoride	2.50	1.07		3.48	mg/L		96.2	(90%-110%)		08/29/24 05:42
Nitrate-N	2.50	2.21		4.79	mg/L		103	(90%-110%)		08/29/24 01:04
Sulfate	10.0	14.2		24.5	mg/L		104	(90%-110%)		08/29/24 07:14
Metals Analysis - ICPMS										
Batch 2664353										
QC1205838425 LCS										
Antimony	0.0500			0.0500	mg/L		99.9	(80%-120%)	BAJ	09/07/24 15:23
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		09/08/24 11:19
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		09/07/24 15:23
Calcium	2.00			2.03	mg/L		102	(80%-120%)		09/08/24 11:19
Chromium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 15:23
Cobalt	0.0500			0.0494	mg/L		98.8	(80%-120%)		

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Iron	2.00			1.99	mg/L		99.4	(80%-120%)	BAJ	09/07/24 15:23
Lead	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Lithium	0.0500			0.0525	mg/L		105	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0495	mg/L		99	(80%-120%)		
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		
Potassium	2.00			2.03	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0521	mg/L		104	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
Thallium	0.0500			0.0474	mg/L		94.8	(80%-120%)		
QC1205838424 MB										
Antimony			U	ND	mg/L					09/07/24 15:20
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Boron			U	ND	mg/L				BAJ	09/08/24 11:18
Cadmium			U	ND	mg/L					09/07/24 15:20
Calcium			U	ND	mg/L					09/08/24 11:18
Chromium			U	ND	mg/L					09/07/24 15:20
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683169**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Thallium				U	ND	mg/L				BAJ	09/07/24 15:20
QC1205838426 683169001 MS											
Antimony	0.0500	U	ND		0.0528	mg/L		106	(75%-125%)		09/07/24 15:47
Arsenic	0.0500	U	ND		0.0542	mg/L		106	(75%-125%)		
Barium	0.0500		0.0164		0.0685	mg/L		104	(75%-125%)		
Beryllium	0.0500		0.00644		0.0655	mg/L		118	(75%-125%)		
Boron	0.100		1.31		1.41	mg/L		N/A	(75%-125%)		09/08/24 11:50
Cadmium	0.0500	J	0.000341		0.0521	mg/L		104	(75%-125%)		09/07/24 15:47
Calcium	2.00		26.7		29.2	mg/L		N/A	(75%-125%)		09/08/24 11:40
Chromium	0.0500	J	0.00328		0.0546	mg/L		103	(75%-125%)		09/07/24 15:47
Cobalt	0.0500		0.119		0.169	mg/L		101	(75%-125%)		
Iron	2.00	U	ND		2.04	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0494	mg/L		98.3	(75%-125%)		
Lithium	0.0500		0.0200		0.0745	mg/L		109	(75%-125%)		
Magnesium	2.00		27.9		30.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683169**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Manganese	0.0500		1.26		1.30	mg/L		N/A	(75%-125%)	BAJ	09/07/24 16:03
Molybdenum	0.0500	U	ND		0.0559	mg/L		112	(75%-125%)		09/07/24 15:47
Potassium	2.00		5.23		7.47	mg/L		112	(75%-125%)		
Selenium	0.0500		0.0180		0.0714	mg/L		107	(75%-125%)		
Sodium	2.00		32.8		34.6	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0477	mg/L		95.1	(75%-125%)		
QC1205838427 683169001 MSD											
Antimony	0.0500	U	ND		0.0521	mg/L	1.44	104	(0%-20%)		09/07/24 15:50
Arsenic	0.0500	U	ND		0.0524	mg/L	3.41	102	(0%-20%)		
Barium	0.0500		0.0164		0.0676	mg/L	1.27	102	(0%-20%)		
Beryllium	0.0500		0.00644		0.0636	mg/L	2.89	114	(0%-20%)		
Boron	0.100		1.31		1.36	mg/L	4.08	N/A	(0%-20%)		09/08/24 11:51
Cadmium	0.0500	J	0.000341		0.0520	mg/L	0.292	103	(0%-20%)		09/07/24 15:50
Calcium	2.00		26.7		28.3	mg/L	2.95	N/A	(0%-20%)		09/08/24 11:41
Chromium	0.0500	J	0.00328		0.0528	mg/L	3.3	99.1	(0%-20%)		09/07/24 15:50

QC Summary

Workorder: **683169**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2664353												
Cobalt	0.0500		0.119		0.165	mg/L	2.25	93	(0%-20%)	BAJ	09/07/24	15:50
Iron	2.00	U	ND		2.00	mg/L	2.01	99.1	(0%-20%)			
Lead	0.0500	U	ND		0.0489	mg/L	0.94	97.4	(0%-20%)			
Lithium	0.0500		0.0200		0.0738	mg/L	0.875	108	(0%-20%)			
Magnesium	2.00		27.9		29.4	mg/L	2.87	N/A	(0%-20%)			
Manganese	0.0500		1.26		1.25	mg/L	4.06	N/A	(0%-20%)		09/07/24	16:05
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.967	111	(0%-20%)		09/07/24	15:50
Potassium	2.00		5.23		7.14	mg/L	4.48	95.4	(0%-20%)			
Selenium	0.0500		0.0180		0.0700	mg/L	1.97	104	(0%-20%)			
Sodium	2.00		32.8		33.9	mg/L	2.02	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0466	mg/L	2.37	92.9	(0%-20%)			
QC1205838428 683169001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	15:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			16.4	J	3.42	ug/L	4.18		(0%-20%)			

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Beryllium		6.44		1.25	ug/L	3.4		(0%-20%)	BAJ	09/07/24 15:56
Boron		131		31.0	ug/L	17.9		(0%-20%)		09/08/24 11:52
Cadmium	J	0.341	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Calcium		26700		5480	ug/L	2.83		(0%-20%)		09/08/24 11:43
Chromium	J	3.28	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Cobalt		119		24.5	ug/L	2.95		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		20.0	J	3.83	ug/L	4.15		(0%-20%)		
Magnesium		27900		5950	ug/L	6.39		(0%-20%)		
Manganese		126		25.3	ug/L	.101		(0%-20%)		09/07/24 16:08
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Potassium		5230		1060	ug/L	.798		(0%-20%)		
Selenium		18.0	J	3.83	ug/L	6.1		(0%-20%)		

QC Summary

Workorder: 683169

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Sodium		32800		6560	ug/L	.000277			(0%-20%)	BAJ	09/07/24 15:56
Thallium	U	ND	U	ND	ug/L	N/A			(0%-20%)		
Metals Analysis-Mercury											
Batch 2664552											
QC1205838870 683169001 DUP											
Mercury	U	ND	U	ND	mg/L	N/A				JP2	08/30/24 13:08
QC1205838869 LCS											
Mercury 0.00200				0.00204	mg/L			102	(80%-120%)		08/30/24 13:05
QC1205838868 MB											
Mercury			U	ND	mg/L						08/30/24 13:03
QC1205838871 683169001 MS											
Mercury 0.00200	U	ND		0.00203	mg/L			99.5	(75%-125%)		08/30/24 13:13
QC1205838872 683169001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A			(0%-10%)		08/30/24 13:15
Solids Analysis											
Batch 2666213											
QC1205842577 683169001 DUP											
Total Dissolved Solids		370		401	mg/L	8.04	*		(0%-5%)	KLP1	09/03/24 15:58
QC1205842578 683173007 DUP											
Total Dissolved Solids		180		178	mg/L	1.12			(0%-5%)		09/03/24 15:58
QC1205842576 LCS											
Total Dissolved Solids 300				294	mg/L			98	(95%-105%)		09/03/24 15:58

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666213										
QC1205842575 MB										
Total Dissolved Solids			U	ND	mg/L				KLP1	09/03/24 15:58
Spectrometric Analysis										
Batch 2664625										
QC1205838996 LCS										
Total Sulfide	0.400			0.409	mg/L		102	(85%-115%)	JW2	08/29/24 11:00
QC1205838995 MB										
Total Sulfide			U	ND	mg/L					08/29/24 11:00
QC1205838997 683169001 PS										
Total Sulfide	0.400	U	ND	0.389	mg/L		97.2	(75%-125%)		08/29/24 11:00
QC1205838999 683176001 PS										
Total Sulfide	0.400	U	ND	0.401	mg/L		100	(75%-125%)		08/29/24 11:01
QC1205838998 683169001 PSD										
Total Sulfide	0.400	U	ND	0.378	mg/L	2.9	94.4	(0%-15%)		08/29/24 11:00
QC1205839000 683176001 PSD										
Total Sulfide	0.400	U	ND	0.393	mg/L	2.18	98.2	(0%-15%)		08/29/24 11:01
Titration and Ion Analysis										
Batch 2664341										
QC1205838409 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106	(90%-110%)	JW2	08/28/24 16:28
QC1205838414 LCS										
Alkalinity, Total as CaCO3	15.0			14.4	mg/L		96	(90%-110%)		08/28/24 16:30
QC1205838415 LCSD										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L	0.377	106	(0%-20%)		08/28/24 16:29

QC Summary

Workorder: **683169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2664341											
QC1205838416 LCSD											
Alkalinity, Total as CaCO3	15.0			14.1	mg/L	2.11	94	(0%-20%)	JW2	08/28/24	16:31

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

QC Summary

Workorder: **683169**

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

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2664353

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2664350

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

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838424	Method Blank (MB)**ICP-MS**
1205838425	Laboratory Control Sample (LCS)
1205838428	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838426	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)
1205838427	683169001(BRA-BRGWC-38SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683169001 (BRA-BRGWC-38S) and 683169002 (BRA-PZ-53D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683169	
	001	002
Boron	10X	10X
Calcium	1X	10X
Manganese	10X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2664552

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2664551

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

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838868	Method Blank (MB)**CVAA**
1205838869	Laboratory Control Sample (LCS)
1205838872	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838870	683169001(BRA-BRGWC-38SD) Sample Duplicate (DUP)
1205838871	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664372

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

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D

683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838479	Method Blank (MB)
1205838480	Laboratory Control Sample (LCS)
1205838481	683164003(NonSDG) Sample Duplicate (DUP)
1205838482	683164003(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205838481 (Non SDG 683164003DUP), 1205838482 (Non SDG 683164003PS), 683169001 (BRA-BRGWC-38S), 683169002 (BRA-PZ-53D), 683169003 (BRA-PZ-13S) and 683169006 (BRA-APE-FD-04) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205838481 (Non SDG 683164003DUP), 1205838482 (Non SDG 683164003PS), 683169001 (BRA-BRGWC-38S), 683169003 (BRA-PZ-13S) and 683169004 (BRA-BRGWC-37S) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683169				
	001	**002**	**003**	**004**	**006**
Nitrate-N	2X	1X	2X	2X	1X
Sulfate	20X	25X	5X	1X	5X

Miscellaneous Information

Manual Integrations
Samples 1205838481 (Non SDG 683164003DUP), 1205838482 (Non SDG 683164003PS), 683169001 (BRA-BRGWC-38S), 683169002 (BRA-PZ-53D), 683169003 (BRA-PZ-13S), 683169004 (BRA-BRGWC-37S) and 683169006 (BRA-APE-FD-04) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666213

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

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S

683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205842575	Method Blank (MB)
1205842576	Laboratory Control Sample (LCS)
1205842577	683169001(BRA-BRGWC-38S) Sample Duplicate (DUP)
1205842578	683173007(BRA-PZ-44) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842577 (BRA-BRGWC-38SDUP)	8.04* (0%-5%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2664625

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

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838995	Method Blank (MB)
1205838996	Laboratory Control Sample (LCS)
1205838997	683169001(BRA-BRGWC-38S) Post Spike (PS)
1205838998	683169001(BRA-BRGWC-38S) Post Spike Duplicate (PSD)
1205838999	683176001(BRA-BRGWA-2S) Post Spike (PS)
1205839000	683176001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2664341

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

GEL Sample ID#	Client Sample Identification
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
1205838409	Laboratory Control Sample (LCS)
1205838414	Laboratory Control Sample (LCS)
1205838415	Laboratory Control Sample Duplicate (LCSD)
1205838416	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

683170 / 683169

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

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

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

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

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb. & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-38S	08/27/24	1207	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-53D	08/27/24	1400	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-13S	08/27/24	1351	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-37S	08/27/24	1641	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	08/27/24	1540	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	08/27/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Taylor Gobble	8-28-24	0827	1	8/28/24	0827
2			2	8/28/24	1310
3			3		

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?		✓		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?		✓		GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?		✓		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683173

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683173001	BRA-BRGWA-23S	Ground Water	08/27/24 12:30	08/28/24 08:27
683173002	BRA-APBCD-FB-01	Water	08/27/24 15:25	08/28/24 08:27
683173003	BRA-BRGWC-29I	Ground Water	08/27/24 15:45	08/28/24 08:27
683173004	BRA-BRGWC-27I	Ground Water	08/27/24 15:37	08/28/24 08:27
683173005	BRA-PZ-74I	Ground Water	08/27/24 12:12	08/28/24 08:27
683173006	BRA-PZ-75I	Ground Water	08/27/24 14:00	08/28/24 08:27
683173007	BRA-PZ-44	Ground Water	08/27/24 17:21	08/28/24 08:27
683173008	BRA-APBCD-FD-01	Ground Water	08/27/24 12:00	08/28/24 08:27
683173009	BRA-APBCD-EB-04	Water	08/27/24 17:45	08/28/24 08:27

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	29-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	28-AUG-2024
EPA 300.0	29-AUG-2024
SM 2320B	28-AUG-2024
SM 2540C	03-SEP-2024
SM 4500-S (2-) D	29-AUG-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	30-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683173 GEL Work Order: 683173

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-23S	Project:	GPCC00101
Sample ID:	683173001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:30		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N		1.28	0.0660	0.200	mg/L		2	TXT1	08/29/24	0151	2664366	1
Chloride		2.16	0.0670	0.200	mg/L		1	TXT1	08/28/24	1824	2664366	2
Fluoride		0.204	0.0330	0.100	mg/L		1					
Sulfate		9.73	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1326	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1643	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0432	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0482	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00687	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.38	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000225	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.95	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		8.76	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0315	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1200	2664353	5
Calcium		5.88	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		86.0	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-23S
Sample ID: 683173001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.4	0.725	2.00	mg/L			JW2	08/28/24	1640	2664341	8
Bicarbonate alkalinity (CaCO3)		32.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-01
Sample ID: 683173002
Matrix: WQ
Collect Date: 27-AUG-24 15:25
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.118	0.0670	0.200	mg/L		1	TXT1	08/28/24	2000	2664366	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1328	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1122	2664353	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1528	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 683173002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1642	2664341	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-29I	Project:	GPCC00101
Sample ID:	683173003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:45		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.87	0.0670	0.200	mg/L		1	TXT1	08/28/24	2032	2664366	1
Fluoride	J	0.0849	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		261	3.33	10.0	mg/L		25	TXT1	08/29/24	0327	2664366	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1333	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		1.13	0.0100	0.0500	mg/L	1.00	10	BAJ	09/07/24	1655	2664353	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1646	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0163	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000892	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00574	0.000300	0.00100	mg/L	1.00	1					
Iron		17.6	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00305	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.52	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.74	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.09	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1202	2664353	6
Calcium		70.5	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		424	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	8

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-29I
Sample ID: 683173003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/28/24	1642	2664341	9
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-27I	Project:	GPCC00101
Sample ID:	683173004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:37		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		174	3.33	10.0	mg/L		25	TXT1	08/29/24	0358	2664366	1
Chloride		4.47	0.0670	0.200	mg/L		1	TXT1	08/28/24	2104	2664366	2
Fluoride		0.382	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0370	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1335	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1649	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0164	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00566	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.27	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.415	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000211	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.07	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.28	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1203	2664353	5
Calcium		75.9	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		346	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-27I
Sample ID: 683173004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		51.2	0.725	2.00	mg/L			JW2	08/28/24	1643	2664341	8
Bicarbonate alkalinity (CaCO3)		51.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-74I	Project:	GPCC00101
Sample ID:	683173005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:12		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.159	0.0330	0.100	mg/L		1	TXT1	08/28/24	2136	2664366	1
Nitrate-N	J	0.0492	0.0330	0.100	mg/L		1					
Chloride		27.1	1.68	5.00	mg/L		25	TXT1	08/29/24	0430	2664366	2
Sulfate		260	3.33	10.0	mg/L		25					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1336	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1651	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0260	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.138	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00825	0.00300	0.0100	mg/L	1.00	1					
Magnesium		38.4	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00713	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.36	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0597	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.20	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1205	2664353	5
Calcium		68.8	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		519	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-74I
Sample ID: 683173005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		45.8	0.725	2.00	mg/L			JW2	08/28/24	1644	2664341	8
Bicarbonate alkalinity (CaCO3)		45.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-75I
Sample ID: 683173006
Matrix: WG
Collect Date: 27-AUG-24 14:00
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.31	0.0670	0.200	mg/L		1	TXT1	08/28/24	2208	2664366	1
Fluoride		0.155	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0477	0.0330	0.100	mg/L		1					
Sulfate		257	3.33	10.0	mg/L		25	TXT1	08/29/24	0606	2664366	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1338	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.20	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1227	2664353	4
Calcium		49.8	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1716	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0350	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00433	0.00300	0.0100	mg/L	1.00	1					
Magnesium		36.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0125	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.07	0.0800	0.300	mg/L	1.00	1					
Selenium		0.106	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		467	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1100	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-75I
Sample ID: 683173006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.3	0.725	2.00	mg/L			JW2	08/28/24	1646	2664341	8
Bicarbonate alkalinity (CaCO3)		35.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-44	Project:	GPCC00101
Sample ID:	683173007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 17:21		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		41.8	0.665	2.00	mg/L		5	TXT1	08/29/24	0953	2664366	1
Chloride		5.99	0.0670	0.200	mg/L		1	TXT1	08/28/24	2343	2664366	2
Fluoride		0.193	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0416	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1340	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.16	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1233	2664353	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1719	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00629	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.404	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.65	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		24.9	0.0800	0.200	mg/L	1.00	1	BAJ	09/08/24	1228	2664353	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		180	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	8

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 683173007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		76.7	0.725	2.00	mg/L			JW2	08/28/24	1648	2664341	9
Bicarbonate alkalinity (CaCO3)		76.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-01
Sample ID: 683173008
Matrix: WQ
Collect Date: 27-AUG-24 12:00
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		177	2.66	8.00	mg/L		20	TXT1	08/29/24	1024	2664366	1
Chloride		4.45	0.0670	0.200	mg/L		1	TXT1	08/29/24	0015	2664366	2
Fluoride		0.398	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1341	2664552	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.32	0.0520	0.150	mg/L	1.00	10	BAJ	09/08/24	1231	2664353	4
Calcium		73.7	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1722	2664353	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0162	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00543	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.08	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.402	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.90	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		16.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		340	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	7

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 683173008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.1	0.725	2.00	mg/L			JW2	08/28/24	1649	2664341	8
Bicarbonate alkalinity (CaCO3)		52.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-04
Sample ID: 683173009
Matrix: WG
Collect Date: 27-AUG-24 17:45
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.118	0.0670	0.200	mg/L		1	TXT1	08/29/24	0047	2664366	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1343	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1124	2664353	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1531	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/03/24	1558	2666213	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 683173009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	0.900	0.725	2.00	mg/L			JW2	08/28/24	1650	2664341	7
Bicarbonate alkalinity (CaCO3)	J	0.900	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 12, 2024

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

Contact: **Joju Abraham**

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2664366											
QC1205838463 683173001 DUP											
Chloride		2.16		2.15	mg/L	0.283			(0%-20%)	TXT1	08/28/24 18:56
Fluoride		0.204		0.213	mg/L	4.51	^		(+/-0.100)		
Nitrate-N		1.28		1.28	mg/L	0.265			(0%-20%)		08/29/24 02:23
Sulfate		9.73		9.63	mg/L	1.02			(0%-20%)		08/28/24 18:56
QC1205838462 LCS											
Chloride	5.00			4.64	mg/L			92.8	(90%-110%)		08/28/24 17:53
Fluoride	2.50			2.45	mg/L			98	(90%-110%)		
Nitrate-N	2.50			2.38	mg/L			95	(90%-110%)		
Sulfate	10.0			9.41	mg/L			94.1	(90%-110%)		
QC1205838461 MB											
Chloride			J	0.115	mg/L						08/28/24 17:21
Fluoride			U	ND	mg/L						
Nitrate-N			U	ND	mg/L						
Sulfate			U	ND	mg/L						

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664366										
QC1205838464 683173001 PS										
Chloride	5.00	2.16		7.01	mg/L		97	(90%-110%)	TXT1	08/28/24 19:28
Fluoride	2.50	0.204		2.67	mg/L		98.8	(90%-110%)		
Nitrate-N	2.50	0.642		2.97	mg/L		93.3	(90%-110%)		08/29/24 02:55
Sulfate	10.0	9.73		19.7	mg/L		99.7	(90%-110%)		08/28/24 19:28
Metals Analysis - ICPMS										
Batch 2664353										
QC1205838425 LCS										
Antimony	0.0500			0.0500	mg/L		99.9	(80%-120%)	BAJ	09/07/24 15:23
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		09/08/24 11:19
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		09/07/24 15:23
Calcium	2.00			2.03	mg/L		102	(80%-120%)		09/08/24 11:19
Chromium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 15:23
Cobalt	0.0500			0.0494	mg/L		98.8	(80%-120%)		

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Iron	2.00			1.99	mg/L		99.4	(80%-120%)	BAJ	09/07/24 15:23
Lead	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Lithium	0.0500			0.0525	mg/L		105	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0495	mg/L		99	(80%-120%)		
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		
Potassium	2.00			2.03	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0521	mg/L		104	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
Thallium	0.0500			0.0474	mg/L		94.8	(80%-120%)		
QC1205838424 MB										
Antimony			U	ND	mg/L					09/07/24 15:20
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Boron			U	ND	mg/L				BAJ	09/08/24 11:18
Cadmium			U	ND	mg/L					09/07/24 15:20
Calcium			U	ND	mg/L					09/08/24 11:18
Chromium			U	ND	mg/L					09/07/24 15:20
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683173**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Thallium				U	ND	mg/L				BAJ	09/07/24 15:20
QC1205838426 683169001 MS											
Antimony	0.0500	U	ND		0.0528	mg/L		106	(75%-125%)		09/07/24 15:47
Arsenic	0.0500	U	ND		0.0542	mg/L		106	(75%-125%)		
Barium	0.0500		0.0164		0.0685	mg/L		104	(75%-125%)		
Beryllium	0.0500		0.00644		0.0655	mg/L		118	(75%-125%)		
Boron	0.100		1.31		1.41	mg/L		N/A	(75%-125%)		09/08/24 11:50
Cadmium	0.0500	J	0.000341		0.0521	mg/L		104	(75%-125%)		09/07/24 15:47
Calcium	2.00		26.7		29.2	mg/L		N/A	(75%-125%)		09/08/24 11:40
Chromium	0.0500	J	0.00328		0.0546	mg/L		103	(75%-125%)		09/07/24 15:47
Cobalt	0.0500		0.119		0.169	mg/L		101	(75%-125%)		
Iron	2.00	U	ND		2.04	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0494	mg/L		98.3	(75%-125%)		
Lithium	0.0500		0.0200		0.0745	mg/L		109	(75%-125%)		
Magnesium	2.00		27.9		30.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683173**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Manganese	0.0500		1.26		1.30	mg/L		N/A	(75%-125%)	BAJ	09/07/24 16:03
Molybdenum	0.0500	U	ND		0.0559	mg/L		112	(75%-125%)		09/07/24 15:47
Potassium	2.00		5.23		7.47	mg/L		112	(75%-125%)		
Selenium	0.0500		0.0180		0.0714	mg/L		107	(75%-125%)		
Sodium	2.00		32.8		34.6	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0477	mg/L		95.1	(75%-125%)		
QC1205838427 683169001 MSD											
Antimony	0.0500	U	ND		0.0521	mg/L	1.44	104	(0%-20%)		09/07/24 15:50
Arsenic	0.0500	U	ND		0.0524	mg/L	3.41	102	(0%-20%)		
Barium	0.0500		0.0164		0.0676	mg/L	1.27	102	(0%-20%)		
Beryllium	0.0500		0.00644		0.0636	mg/L	2.89	114	(0%-20%)		
Boron	0.100		1.31		1.36	mg/L	4.08	N/A	(0%-20%)		09/08/24 11:51
Cadmium	0.0500	J	0.000341		0.0520	mg/L	0.292	103	(0%-20%)		09/07/24 15:50
Calcium	2.00		26.7		28.3	mg/L	2.95	N/A	(0%-20%)		09/08/24 11:41
Chromium	0.0500	J	0.00328		0.0528	mg/L	3.3	99.1	(0%-20%)		09/07/24 15:50

QC Summary

Workorder: **683173**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Cobalt	0.0500		0.119		0.165	mg/L	2.25	93	(0%-20%)	BAJ	09/07/24 15:50
Iron	2.00	U	ND		2.00	mg/L	2.01	99.1	(0%-20%)		
Lead	0.0500	U	ND		0.0489	mg/L	0.94	97.4	(0%-20%)		
Lithium	0.0500		0.0200		0.0738	mg/L	0.875	108	(0%-20%)		
Magnesium	2.00		27.9		29.4	mg/L	2.87	N/A	(0%-20%)		
Manganese	0.0500		1.26		1.25	mg/L	4.06	N/A	(0%-20%)		09/07/24 16:05
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.967	111	(0%-20%)		09/07/24 15:50
Potassium	2.00		5.23		7.14	mg/L	4.48	95.4	(0%-20%)		
Selenium	0.0500		0.0180		0.0700	mg/L	1.97	104	(0%-20%)		
Sodium	2.00		32.8		33.9	mg/L	2.02	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0466	mg/L	2.37	92.9	(0%-20%)		
QC1205838428 683169001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			16.4	J	3.42	ug/L	4.18		(0%-20%)		

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Beryllium		6.44		1.25	ug/L	3.4		(0%-20%)	BAJ	09/07/24 15:56
Boron		131		31.0	ug/L	17.9		(0%-20%)		09/08/24 11:52
Cadmium	J	0.341	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Calcium		26700		5480	ug/L	2.83		(0%-20%)		09/08/24 11:43
Chromium	J	3.28	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Cobalt		119		24.5	ug/L	2.95		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		20.0	J	3.83	ug/L	4.15		(0%-20%)		
Magnesium		27900		5950	ug/L	6.39		(0%-20%)		
Manganese		126		25.3	ug/L	.101		(0%-20%)		09/07/24 16:08
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Potassium		5230		1060	ug/L	.798		(0%-20%)		
Selenium		18.0	J	3.83	ug/L	6.1		(0%-20%)		

QC Summary

Workorder: 683173

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Sodium		32800		6560	ug/L	.000277			(0%-20%)	BAJ	09/07/24 15:56
Thallium	U	ND	U	ND	ug/L	N/A			(0%-20%)		
Metals Analysis-Mercury											
Batch 2664552											
QC1205838870 683169001 DUP											
Mercury	U	ND	U	ND	mg/L	N/A				JP2	08/30/24 13:08
QC1205838869 LCS											
Mercury 0.00200				0.00204	mg/L			102	(80%-120%)		08/30/24 13:05
QC1205838868 MB											
Mercury			U	ND	mg/L						08/30/24 13:03
QC1205838871 683169001 MS											
Mercury 0.00200	U	ND		0.00203	mg/L			99.5	(75%-125%)		08/30/24 13:13
QC1205838872 683169001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A			(0%-10%)		08/30/24 13:15
Solids Analysis											
Batch 2666213											
QC1205842577 683169001 DUP											
Total Dissolved Solids		370		401	mg/L	8.04	*		(0%-5%)	KLP1	09/03/24 15:58
QC1205842578 683173007 DUP											
Total Dissolved Solids		180		178	mg/L	1.12			(0%-5%)		09/03/24 15:58
QC1205842576 LCS											
Total Dissolved Solids 300				294	mg/L			98	(95%-105%)		09/03/24 15:58

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666213										
QC1205842575 MB										
Total Dissolved Solids			U	ND	mg/L				KLP1	09/03/24 15:58
Spectrometric Analysis										
Batch 2664625										
QC1205838996 LCS										
Total Sulfide	0.400			0.409	mg/L		102	(85%-115%)	JW2	08/29/24 11:00
QC1205838995 MB										
Total Sulfide			U	ND	mg/L					08/29/24 11:00
QC1205838997 683169001 PS										
Total Sulfide	0.400	U	ND	0.389	mg/L		97.2	(75%-125%)		08/29/24 11:00
QC1205838999 683176001 PS										
Total Sulfide	0.400	U	ND	0.401	mg/L		100	(75%-125%)		08/29/24 11:01
QC1205838998 683169001 PSD										
Total Sulfide	0.400	U	ND	0.378	mg/L	2.9	94.4	(0%-15%)		08/29/24 11:00
QC1205839000 683176001 PSD										
Total Sulfide	0.400	U	ND	0.393	mg/L	2.18	98.2	(0%-15%)		08/29/24 11:01
Titration and Ion Analysis										
Batch 2664341										
QC1205838409 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106	(90%-110%)	JW2	08/28/24 16:28
QC1205838414 LCS										
Alkalinity, Total as CaCO3	15.0			14.4	mg/L		96	(90%-110%)		08/28/24 16:30
QC1205838415 LCSD										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L	0.377	106	(0%-20%)		08/28/24 16:29

QC Summary

Workorder: **683173**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2664341											
QC1205838416 LCSD											
Alkalinity, Total as CaCO3	15.0			14.1	mg/L	2.11	94	(0%-20%)	JW2	08/28/24	16:31

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- B The target analyte was detected in the associated blank.
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- J See case narrative for an explanation

QC Summary

Workorder: **683173**

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

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2664353

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2664350

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

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838424	Method Blank (MB)**ICP-MS**
1205838425	Laboratory Control Sample (LCS)
1205838428	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838426	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)
1205838427	683169001(BRA-BRGWC-38SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683173003 (BRA-BRGWC-29I), 683173004 (BRA-BRGWC-27I), 683173005 (BRA-PZ-74I), 683173006 (BRA-PZ-75I), 683173007 (BRA-PZ-44) and 683173008 (BRA-APBCD-FD-01) were diluted to ensure that the analyte concentrations were within the linear

calibration range of the instrument.

Analyte	683173					
	003	**004**	**005**	**006**	**007**	**008**
Boron	10X	10X	10X	10X	10X	10X
Calcium	10X	10X	10X	10X	1X	10X
Manganese	10X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2664552

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2664551

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

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838868	Method Blank (MB)**CVAA**
1205838869	Laboratory Control Sample (LCS)
1205838872	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838870	683169001(BRA-BRGWC-38SD) Sample Duplicate (DUP)
1205838871	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664366

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

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838461	Method Blank (MB)
1205838462	Laboratory Control Sample (LCS)
1205838463	683173001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205838464	683173001(BRA-BRGWA-23S) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 683173003 (BRA-BRGWC-29I), 683173004 (BRA-BRGWC-27I), 683173005 (BRA-PZ-74I), 683173006 (BRA-PZ-75I), 683173007 (BRA-PZ-44) and 683173008 (BRA-APBCD-FD-01) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205838463 (BRA-BRGWA-23SDUP), 1205838464 (BRA-BRGWA-23SPS) and 683173001 (BRA-BRGWA-23S) in this sample group were diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683173						
	001	**003**	**004**	**005**	**006**	**007**	**008**
Chloride	1X	1X	1X	25X	1X	1X	1X
Nitrate-N	2X	1X	1X	1X	1X	1X	1X
Sulfate	1X	25X	25X	25X	25X	5X	20X

Miscellaneous Information

Manual Integrations
Samples 683173003 (BRA-BRGWC-29I) and 683173008 (BRA-APBCD-FD-01) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666213

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

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205842575	Method Blank (MB)
1205842576	Laboratory Control Sample (LCS)
1205842577	683169001(BRA-BRGWC-38S) Sample Duplicate (DUP)
1205842578	683173007(BRA-PZ-44) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842577 (BRA-BRGWC-38SDUP)	8.04* (0%-5%)

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2664625

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

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838995	Method Blank (MB)

1205838996	Laboratory Control Sample (LCS)
1205838997	683169001(BRA-BRGWC-38S) Post Spike (PS)
1205838998	683169001(BRA-BRGWC-38S) Post Spike Duplicate (PSD)
1205838999	683176001(BRA-BRGWA-2S) Post Spike (PS)
1205839000	683176001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2664341

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

GEL Sample ID#	Client Sample Identification
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
1205838409	Laboratory Control Sample (LCS)
1205838414	Laboratory Control Sample (LCS)
1205838415	Laboratory Control Sample Duplicate (LCSD)
1205838416	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

683174 | 683173

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC

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

Chain of Custody and Analytical Request

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

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

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

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- BRGWA-23S	08/27/24	1230	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA- APBCD-FB-01	08/27/24	1525	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA- BRGWC-29I	08/27/24	1545	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- BRGWC-27I	08/27/24	1537	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- PZ-74I	08/27/24	1212	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- PZ-75I	08/27/24	1400	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- PZ-44	08/27/24	1721	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- APBCD-FD-01	08/27/24	✓	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- APBCD-EB-04	08/27/24	1745	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/28/24	0827	[signature]	8/28/24	0827
2				[signature]	8/28/24	1310
3						

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

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

Fax Results: [ ] Yes [x] No

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

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683176

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683176001	BRA-BRGWA-2S	Ground Water	08/27/24 09:45	08/28/24 08:27
683176002	BRA-BRGWA-5S	Ground Water	08/27/24 09:50	08/28/24 08:27
683176003	BRA-BRGWA-2I	Ground Water	08/27/24 10:08	08/28/24 08:27
683176004	BRA-BRGWA-5I	Ground Water	08/27/24 09:47	08/28/24 08:27
683176005	BRA-BRGWA-6S	Ground Water	08/27/24 11:35	08/28/24 08:27

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	29-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	28-AUG-2024
SM 2320B	28-AUG-2024
SM 2540C	03-SEP-2024

SM 4500-S (2-) D	29-AUG-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	30-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683176 GEL Work Order: 683176

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-2S	Project:	GPCC00101
Sample ID:	683176001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 09:45		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.17	0.0670	0.200	mg/L		1	CH6	08/28/24	1709	2663917	1
Fluoride	J	0.0426	0.0330	0.100	mg/L		1					
Nitrate-N		0.176	0.0330	0.100	mg/L		1					
Sulfate		0.444	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1345	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1211	2664353	3
Calcium		5.45	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1724	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0132	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00799	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000772	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0560	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.49	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0293	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.431	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.51	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		51.0	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-2S
Sample ID: 683176001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.0	0.725	2.00	mg/L			JW2	08/28/24	1651	2664341	7
Bicarbonate alkalinity (CaCO3)		38.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-5S	Project:	GPCC00101
Sample ID:	683176002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 09:50		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.49	0.0670	0.200	mg/L		1	CH6	08/28/24	1841	2663917	1
Fluoride	J	0.0516	0.0330	0.100	mg/L		1					
Nitrate-N		0.241	0.0330	0.100	mg/L		1					
Sulfate		0.652	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1346	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	J	0.00538	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1213	2664353	3
Calcium		17.2	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1727	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0362	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00604	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0458	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		8.38	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00602	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.499	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.89	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		101	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-5S
Sample ID: 683176002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.8	0.725	2.00	mg/L			JW2	08/28/24	1653	2664341	7
Bicarbonate alkalinity (CaCO3)		79.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-2I	Project:	GPCC00101
Sample ID:	683176003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 10:08		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.16	0.0670	0.200	mg/L		1	CH6	08/28/24	1912	2663917	1
Fluoride	J	0.0342	0.0330	0.100	mg/L		1					
Nitrate-N		0.321	0.0330	0.100	mg/L		1					
Sulfate		2.58	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1348	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1730	2664353	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00493	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00445	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00105	0.000300	0.00100	mg/L	1.00	1					
Iron		0.153	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00584	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.55	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0107	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000313	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.08	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.74	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1214	2664353	4
Calcium		12.4	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		82.0	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-2I
Sample ID: 683176003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		67.8	0.725	2.00	mg/L			JW2	08/28/24	1654	2664341	7
Bicarbonate alkalinity (CaCO3)		67.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	683176004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 09:47		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.88	0.0670	0.200	mg/L		1	CH6	08/28/24	1943	2663917	1
Fluoride	J	0.0365	0.0330	0.100	mg/L		1					
Nitrate-N		0.368	0.0330	0.100	mg/L		1					
Sulfate		2.67	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1353	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1215	2664353	3
Calcium		15.9	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1733	2664353	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0314	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00521	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000396	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00337	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.79	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00134	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.34	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.86	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		107	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-5I	Project:	GPCC00101
Sample ID:	683176004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.5	0.725	2.00	mg/L			JW2	08/28/24	1655	2664341	7
Bicarbonate alkalinity (CaCO3)		79.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 12, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWA-6S	Project:	GPCC00101
Sample ID:	683176005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 11:35		
Receive Date:	28-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.28	0.0670	0.200	mg/L		1	CH6	08/28/24	2014	2663917	1
Fluoride	J	0.0334	0.0330	0.100	mg/L		1					
Nitrate-N		0.713	0.0330	0.100	mg/L		1					
Sulfate		0.465	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/30/24	1355	2664552	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1736	2664353	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0159	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0124	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00322	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.21	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.736	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.54	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1217	2664353	4
Calcium		4.19	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		57.0	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/29/24	1101	2664625	6

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

Certificate of Analysis

Report Date: September 12, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-6S
Sample ID: 683176005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.8	0.725	2.00	mg/L			JW2	08/28/24	1656	2664341	7
Bicarbonate alkalinity (CaCO3)		27.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2664350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/29/24	1110	2664551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 12, 2024

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

Contact: **Joju Abraham**

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2663917										
QC1205837518 683030001 DUP										
Chloride		44.7		45.3	mg/L	1.27		(0%-20%)	CH6	08/28/24 22:48
Fluoride		0.417		0.375	mg/L	10.5 ^		(+/-0.100)		08/28/24 12:59
Nitrate-N		0.124		0.123	mg/L	0.243 ^		(+/-0.100)		
Sulfate		24.7		24.6	mg/L	0.523		(0%-20%)		08/28/24 22:48
QC1205837517 LCS										
Chloride	5.00			4.79	mg/L		95.8	(90%-110%)		08/28/24 14:32
Fluoride	2.50			2.39	mg/L		95.6	(90%-110%)		
Nitrate-N	2.50			2.42	mg/L		96.7	(90%-110%)		
Sulfate	10.0			9.61	mg/L		96.1	(90%-110%)		
QC1205837516 MB										
Chloride			U	ND	mg/L					08/28/24 14:01
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2663917										
QC1205837519 683030001 PS										
Chloride	5.00	4.47		10.0	mg/L		110	(90%-110%)	CH6	08/28/24 23:19
Fluoride	2.50	0.417		2.87	mg/L		98	(90%-110%)		08/28/24 13:30
Nitrate-N	2.50	0.124		2.51	mg/L		95.4	(90%-110%)		
Sulfate	10.0	2.47		12.2	mg/L		97.5	(90%-110%)		08/28/24 23:19
Metals Analysis - ICPMS										
Batch 2664353										
QC1205838425 LCS										
Antimony	0.0500			0.0500	mg/L		99.9	(80%-120%)	BAJ	09/07/24 15:23
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		09/08/24 11:19
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		09/07/24 15:23
Calcium	2.00			2.03	mg/L		102	(80%-120%)		09/08/24 11:19
Chromium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 15:23
Cobalt	0.0500			0.0494	mg/L		98.8	(80%-120%)		

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Iron	2.00			1.99	mg/L		99.4	(80%-120%)	BAJ	09/07/24 15:23
Lead	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Lithium	0.0500			0.0525	mg/L		105	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0495	mg/L		99	(80%-120%)		
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		
Potassium	2.00			2.03	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0521	mg/L		104	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
Thallium	0.0500			0.0474	mg/L		94.8	(80%-120%)		
QC1205838424 MB										
Antimony			U	ND	mg/L					09/07/24 15:20
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Boron			U	ND	mg/L				BAJ	09/08/24 11:18
Cadmium			U	ND	mg/L					09/07/24 15:20
Calcium			U	ND	mg/L					09/08/24 11:18
Chromium			U	ND	mg/L					09/07/24 15:20
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683176**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Thallium				U	ND	mg/L				BAJ	09/07/24 15:20
QC1205838426 683169001 MS											
Antimony	0.0500	U	ND		0.0528	mg/L		106	(75%-125%)		09/07/24 15:47
Arsenic	0.0500	U	ND		0.0542	mg/L		106	(75%-125%)		
Barium	0.0500		0.0164		0.0685	mg/L		104	(75%-125%)		
Beryllium	0.0500		0.00644		0.0655	mg/L		118	(75%-125%)		
Boron	0.100		1.31		1.41	mg/L		N/A	(75%-125%)		09/08/24 11:50
Cadmium	0.0500	J	0.000341		0.0521	mg/L		104	(75%-125%)		09/07/24 15:47
Calcium	2.00		26.7		29.2	mg/L		N/A	(75%-125%)		09/08/24 11:40
Chromium	0.0500	J	0.00328		0.0546	mg/L		103	(75%-125%)		09/07/24 15:47
Cobalt	0.0500		0.119		0.169	mg/L		101	(75%-125%)		
Iron	2.00	U	ND		2.04	mg/L		101	(75%-125%)		
Lead	0.0500	U	ND		0.0494	mg/L		98.3	(75%-125%)		
Lithium	0.0500		0.0200		0.0745	mg/L		109	(75%-125%)		
Magnesium	2.00		27.9		30.2	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683176**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664353											
Manganese	0.0500		1.26		1.30	mg/L		N/A	(75%-125%)	BAJ	09/07/24 16:03
Molybdenum	0.0500	U	ND		0.0559	mg/L		112	(75%-125%)		09/07/24 15:47
Potassium	2.00		5.23		7.47	mg/L		112	(75%-125%)		
Selenium	0.0500		0.0180		0.0714	mg/L		107	(75%-125%)		
Sodium	2.00		32.8		34.6	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0477	mg/L		95.1	(75%-125%)		
QC1205838427 683169001 MSD											
Antimony	0.0500	U	ND		0.0521	mg/L	1.44	104	(0%-20%)		09/07/24 15:50
Arsenic	0.0500	U	ND		0.0524	mg/L	3.41	102	(0%-20%)		
Barium	0.0500		0.0164		0.0676	mg/L	1.27	102	(0%-20%)		
Beryllium	0.0500		0.00644		0.0636	mg/L	2.89	114	(0%-20%)		
Boron	0.100		1.31		1.36	mg/L	4.08	N/A	(0%-20%)		09/08/24 11:51
Cadmium	0.0500	J	0.000341		0.0520	mg/L	0.292	103	(0%-20%)		09/07/24 15:50
Calcium	2.00		26.7		28.3	mg/L	2.95	N/A	(0%-20%)		09/08/24 11:41
Chromium	0.0500	J	0.00328		0.0528	mg/L	3.3	99.1	(0%-20%)		09/07/24 15:50

QC Summary

Workorder: **683176**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2664353												
Cobalt	0.0500		0.119		0.165	mg/L	2.25	93	(0%-20%)	BAJ	09/07/24	15:50
Iron	2.00	U	ND		2.00	mg/L	2.01	99.1	(0%-20%)			
Lead	0.0500	U	ND		0.0489	mg/L	0.94	97.4	(0%-20%)			
Lithium	0.0500		0.0200		0.0738	mg/L	0.875	108	(0%-20%)			
Magnesium	2.00		27.9		29.4	mg/L	2.87	N/A	(0%-20%)			
Manganese	0.0500		1.26		1.25	mg/L	4.06	N/A	(0%-20%)		09/07/24	16:05
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.967	111	(0%-20%)		09/07/24	15:50
Potassium	2.00		5.23		7.14	mg/L	4.48	95.4	(0%-20%)			
Selenium	0.0500		0.0180		0.0700	mg/L	1.97	104	(0%-20%)			
Sodium	2.00		32.8		33.9	mg/L	2.02	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0466	mg/L	2.37	92.9	(0%-20%)			
QC1205838428 683169001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	15:56
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			16.4	J	3.42	ug/L	4.18		(0%-20%)			

QC Summary

Workorder: **683176**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Beryllium		6.44		1.25	ug/L	3.4		(0%-20%)	BAJ	09/07/24 15:56
Boron		131		31.0	ug/L	17.9		(0%-20%)		09/08/24 11:52
Cadmium	J	0.341	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Calcium		26700		5480	ug/L	2.83		(0%-20%)		09/08/24 11:43
Chromium	J	3.28	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Cobalt		119		24.5	ug/L	2.95		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		20.0	J	3.83	ug/L	4.15		(0%-20%)		
Magnesium		27900		5950	ug/L	6.39		(0%-20%)		
Manganese		126		25.3	ug/L	.101		(0%-20%)		09/07/24 16:08
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 15:56
Potassium		5230		1060	ug/L	.798		(0%-20%)		
Selenium		18.0	J	3.83	ug/L	6.1		(0%-20%)		

QC Summary

Workorder: 683176

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2664353										
Sodium		32800		6560	ug/L	.000277		(0%-20%)	BAJ	09/07/24 15:56
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2664552										
QC1205838870 683169001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/30/24 13:08
QC1205838869 LCS										
Mercury	0.00200			0.00204	mg/L		102	(80%-120%)		08/30/24 13:05
QC1205838868 MB										
Mercury			U	ND	mg/L					08/30/24 13:03
QC1205838871 683169001 MS										
Mercury	0.00200	U	ND	0.00203	mg/L		99.5	(75%-125%)		08/30/24 13:13
QC1205838872 683169001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/30/24 13:15
Solids Analysis										
Batch 2666209										
QC1205842574 683236002 DUP										
Total Dissolved Solids		238		236	mg/L	0.844		(0%-5%)	KLP1	09/03/24 15:31
QC1205842572 LCS										
Total Dissolved Solids	300			298	mg/L		99.3	(95%-105%)		09/03/24 15:31
QC1205842571 MB										
Total Dissolved Solids			U	ND	mg/L					09/03/24 15:31

QC Summary

Workorder: 683176

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2664625										
QC1205838996 LCS										
Total Sulfide	0.400			0.409	mg/L		102	(85%-115%)	JW2	08/29/24 11:00
QC1205838995 MB										
Total Sulfide			U	ND	mg/L					08/29/24 11:00
QC1205838997 683169001 PS										
Total Sulfide	0.400	U	ND	0.389	mg/L		97.2	(75%-125%)		08/29/24 11:00
QC1205838999 683176001 PS										
Total Sulfide	0.400	U	ND	0.401	mg/L		100	(75%-125%)		08/29/24 11:01
QC1205838998 683169001 PSD										
Total Sulfide	0.400	U	ND	0.378	mg/L	2.9	94.4	(0%-15%)		08/29/24 11:00
QC1205839000 683176001 PSD										
Total Sulfide	0.400	U	ND	0.393	mg/L	2.18	98.2	(0%-15%)		08/29/24 11:01
Titration and Ion Analysis										
Batch 2664341										
QC1205838409 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106	(90%-110%)	JW2	08/28/24 16:28
QC1205838414 LCS										
Alkalinity, Total as CaCO3	15.0			14.4	mg/L		96	(90%-110%)		08/28/24 16:30
QC1205838415 LCSD										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L	0.377	106	(0%-20%)		08/28/24 16:29
QC1205838416 LCSD										
Alkalinity, Total as CaCO3	15.0			14.1	mg/L	2.11	94	(0%-20%)		08/28/24 16:31

Notes:

QC Summary

Workorder: **683176**

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

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2664353

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2664350

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

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838424	Method Blank (MB)**ICP-MS**
1205838425	Laboratory Control Sample (LCS)
1205838428	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838426	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)
1205838427	683169001(BRA-BRGWC-38SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2664552

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2664551

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

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838868	Method Blank (MB)**CVAA**
1205838869	Laboratory Control Sample (LCS)
1205838872	683169001(BRA-BRGWC-38SL) Serial Dilution (SD)
1205838870	683169001(BRA-BRGWC-38SD) Sample Duplicate (DUP)
1205838871	683169001(BRA-BRGWC-38SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2663917

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

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205837516	Method Blank (MB)
1205837517	Laboratory Control Sample (LCS)
1205837518	683030001(NonSDG) Sample Duplicate (DUP)
1205837519	683030001(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205837518 (Non SDG 683030001DUP) and 1205837519 (Non SDG 683030001PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many

reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Miscellaneous Information

Manual Integrations
Samples 683176001 (BRA-BRGWA-2S), 683176002 (BRA-BRGWA-5S), 683176003 (BRA-BRGWA-2I), 683176004 (BRA-BRGWA-5I) and 683176005 (BRA-BRGWA-6S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666209

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

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205842571	Method Blank (MB)
1205842572	Laboratory Control Sample (LCS)
1205842574	683236002(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2664625

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

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838995	Method Blank (MB)
1205838996	Laboratory Control Sample (LCS)
1205838997	683169001(BRA-BRGWC-38S) Post Spike (PS)
1205838998	683169001(BRA-BRGWC-38S) Post Spike Duplicate (PSD)

1205838999	683176001(BRA-BRGWA-2S) Post Spike (PS)
1205839000	683176001(BRA-BRGWA-2S) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2664341

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

GEL Sample ID#	Client Sample Identification
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
1205838409	Laboratory Control Sample (LCS)
1205838414	Laboratory Control Sample (LCS)
1205838415	Laboratory Control Sample Duplicate (LCSD)
1205838416	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

683177 | 683176

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

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

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

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

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 NI	Radium 226 & 228 SW-846 9315, 9320 NI	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-2S	08/27/24	0945	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5S	08/27/24	0950	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-2I	08/27/24	1008	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5I	08/27/24	0947	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-6S	08/27/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/28/24	0827	1	8/28/24	0927
2			2	8/28/24	1310
3			3		

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

Fax Results: [ ] Yes [x] No

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

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

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683170 683169
683173 683174
683176 683177

GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 10, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683390

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683390001	BRA-BRGWC-30I	Ground Water	08/28/24 13:05	08/29/24 13:10
683390002	BRA-BRGWC-47	Ground Water	08/28/24 15:38	08/29/24 13:10
683390003	BRA-APBCD-FB-02	Water	08/28/24 16:30	08/29/24 13:10
683390004	BRA-BRGWC-52I	Ground Water	08/28/24 16:32	08/29/24 13:10
683390005	BRA-BRGWC-32S	Ground Water	08/28/24 16:27	08/29/24 13:10

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	29-AUG-2024
EPA 300.0	30-AUG-2024
SM 2320B	29-AUG-2024

SM 2540C	04-SEP-2024
SM 4500-S (2-) D	30-AUG-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	03-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683390 GEL Work Order: 683390

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-30I	Project:	GPCC00101
Sample ID:	683390001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 13:05		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.48	0.335	1.00	mg/L		5	CH6	08/29/24	1823	2664760	1
Fluoride	J	0.336	0.165	0.500	mg/L		5					
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		1260	26.6	80.0	mg/L		200	CH6	08/30/24	0644	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1226	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.82	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1646	2665210	4
Calcium		419	1.60	4.00	mg/L	1.00	20					
Magnesium		57.8	0.200	0.600	mg/L	1.00	20					
Manganese		1.52	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1544	2665210	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0339	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00149	0.000300	0.00100	mg/L	1.00	1					
Iron		2.57	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0295	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00123	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.86	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		29.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2030	23.8	100	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-30I
Sample ID: 683390001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		141	0.725	2.00	mg/L			JW2	08/29/24	1648	2665165	8
Bicarbonate alkalinity (CaCO3)		141	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-47	Project:	GPCC00101
Sample ID:	683390002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 15:38		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1310	13.3	40.0	mg/L		100	CH6	08/29/24	1854	2664760	1
Chloride		4.57	0.134	0.400	mg/L		2	CH6	08/29/24	2332	2664760	2
Fluoride	U	ND	0.0660	0.200	mg/L		2					
Nitrate-N	J	0.176	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1227	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1548	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0257	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.119	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0436	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.00704	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000252	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.1	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		38.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.508	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1709	2665210	5
Calcium		302	0.800	2.00	mg/L	1.00	10					
Magnesium		114	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1780	23.8	100	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	7

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 683390002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		27.8	0.725	2.00	mg/L			JW2	08/29/24	1650	2665165	8
Bicarbonate alkalinity (CaCO3)		27.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APBCD-FB-02	Project:	GPCC00101
Sample ID:	683390003	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 16:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/29/24	1925	2664760	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1229	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1551	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00979	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	3.00	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	5

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 683390003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/24	1651	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-52I	Project:	GPCC00101
Sample ID:	683390004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 16:32		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.58	0.0670	0.200	mg/L		1	CH6	08/29/24	1956	2664760	1
Fluoride	J	0.0748	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate		150	1.33	4.00	mg/L		10	CH6	08/30/24	0715	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1231	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1555	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0345	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		36.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.578	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00997	0.00300	0.0100	mg/L	1.00	1					
Magnesium		18.5	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.558	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000691	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.35	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.44	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1712	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		310	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	7

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-52I
Sample ID: 683390004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		52.8	0.725	2.00	mg/L			JW2	08/29/24	1652	2665165	8
Bicarbonate alkalinity (CaCO3)		52.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-32S	Project:	GPCC00101
Sample ID:	683390005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 16:27		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		201	2.66	8.00	mg/L		20	CH6	08/30/24	0746	2664760	1
Chloride		4.09	0.0670	0.200	mg/L		1	CH6	08/29/24	2027	2664760	2
Fluoride	J	0.0511	0.0330	0.100	mg/L		1					
Nitrate-N		0.213	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1232	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1558	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0163	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00514	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.1	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.26	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0945	0.00150	0.00500	mg/L	1.00	1					
Sodium		24.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.996	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/24	1616	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		374	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1033	2665386	7

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-32S
Sample ID: 683390005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		30.1	0.725	2.00	mg/L			JW2	08/29/24	1653	2665165	8
Bicarbonate alkalinity (CaCO3)		30.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 10, 2024

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

Contact: **Joju Abraham**

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2664760												
QC1205840176 683390005 DUP												
Chloride			4.09		4.08	mg/L	0.414			(0%-20%)	CH6	08/29/24 21:59
Fluoride		J	0.0511	J	0.0487	mg/L	4.81	^		(+/-0.100)		
Nitrate-N			0.213		0.211	mg/L	1.04	^		(+/-0.100)		
Sulfate			201		201	mg/L	0.189			(0%-20%)		08/30/24 08:17
QC1205839267 LCS												
Chloride	5.00				4.91	mg/L			98.3	(90%-110%)		08/29/24 14:32
Fluoride	2.50				2.37	mg/L			94.8	(90%-110%)		
Nitrate-N	2.50				2.49	mg/L			99.7	(90%-110%)		
Sulfate	10.0				9.59	mg/L			95.9	(90%-110%)		
QC1205839266 MB												
Chloride				U	ND	mg/L						08/29/24 14:01
Fluoride				U	ND	mg/L						
Nitrate-N				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2664760											
QC1205840177 683390005 PS											
Chloride	5.00		4.09		9.56	mg/L		109	(90%-110%)	CH6	08/29/24 22:30
Fluoride	2.50	J	0.0511		2.48	mg/L		97.3	(90%-110%)		
Nitrate-N	2.50		0.213		2.70	mg/L		99.3	(90%-110%)		
Sulfate	10.0		10.1		20.2	mg/L		102	(90%-110%)		08/30/24 08:47
Metals Analysis - ICPMS											
Batch 2665210											
QC1205840131 LCS											
Antimony	0.0500				0.0483	mg/L		96.7	(80%-120%)	PRB	09/08/24 13:41
Arsenic	0.0500				0.0481	mg/L		96.2	(80%-120%)		
Barium	0.0500				0.0496	mg/L		99.3	(80%-120%)		
Beryllium	0.0500				0.0533	mg/L		107	(80%-120%)		
Boron	0.100				0.101	mg/L		101	(80%-120%)		
Cadmium	0.0500				0.0499	mg/L		99.7	(80%-120%)		
Calcium	2.00				2.05	mg/L		103	(80%-120%)		
Chromium	0.0500				0.0484	mg/L		96.8	(80%-120%)		
Cobalt	0.0500				0.0486	mg/L		97.3	(80%-120%)		

QC Summary

Workorder: **683390**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Iron	2.00			1.95	mg/L		97.4	(80%-120%)	PRB	09/08/24 13:41
Lead	0.0500			0.0495	mg/L		99	(80%-120%)		
Lithium	0.0500			0.0510	mg/L		102	(80%-120%)		
Magnesium	2.00			1.97	mg/L		98.5	(80%-120%)		
Manganese	0.0500			0.0488	mg/L		97.6	(80%-120%)		
Molybdenum	0.0500			0.0527	mg/L		105	(80%-120%)		
Potassium	2.00			1.95	mg/L		97.6	(80%-120%)		
Selenium	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Sodium	2.00			1.94	mg/L		96.9	(80%-120%)		
Thallium	0.0500			0.0451	mg/L		90.1	(80%-120%)		
QC1205840130 MB										
Antimony			U	ND	mg/L					09/08/24 13:37
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683390**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Boron			U	ND	mg/L				PRB	09/08/24 13:37
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Thallium				U	ND	mg/L				PRB	09/08/24 13:37
QC1205840132 683387001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		09/08/24 13:56
Arsenic	0.0500	U	ND		0.0501	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0502		0.102	mg/L		103	(75%-125%)		
Beryllium	0.0500	U	ND		0.0538	mg/L		108	(75%-125%)		
Boron	0.100		0.0721		0.180	mg/L		108	(75%-125%)		
Cadmium	0.0500	U	ND		0.0494	mg/L		98.7	(75%-125%)		
Calcium	2.00		46.4		50.5	mg/L		N/A	(75%-125%)		
Chromium	0.0500		0.0101		0.0592	mg/L		98.1	(75%-125%)		
Cobalt	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
Iron	2.00	U	ND		1.98	mg/L		98	(75%-125%)		
Lead	0.0500	U	ND		0.0490	mg/L		98.1	(75%-125%)		
Lithium	0.0500	U	ND		0.0529	mg/L		103	(75%-125%)		
Magnesium	2.00		26.0		28.7	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Manganese	0.0500	U	ND		0.0497	mg/L		98.8	(75%-125%)	PRB	09/08/24 13:56
Molybdenum	0.0500	U	ND		0.0522	mg/L		104	(75%-125%)		
Potassium	2.00		1.22		3.25	mg/L		101	(75%-125%)		
Selenium	0.0500	J	0.00304		0.0542	mg/L		102	(75%-125%)		
Sodium	2.00		23.4		26.4	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0450	mg/L		89.8	(75%-125%)		
QC1205840133 683387001 MSD											
Antimony	0.0500	U	ND		0.0488	mg/L	3.08	97.3	(0%-20%)		09/08/24 13:59
Arsenic	0.0500	U	ND		0.0480	mg/L	4.26	95	(0%-20%)		
Barium	0.0500		0.0502		0.0974	mg/L	4.41	94.3	(0%-20%)		
Beryllium	0.0500	U	ND		0.0527	mg/L	2.06	105	(0%-20%)		
Boron	0.100		0.0721		0.172	mg/L	4.57	100	(0%-20%)		
Cadmium	0.0500	U	ND		0.0473	mg/L	4.2	94.7	(0%-20%)		
Calcium	2.00		46.4		48.0	mg/L	5.08	N/A	(0%-20%)		
Chromium	0.0500		0.0101		0.0573	mg/L	3.27	94.3	(0%-20%)		

QC Summary

Workorder: **683390**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Cobalt	0.0500	U	ND		0.0479	mg/L	1.75	95.7	(0%-20%)	PRB	09/08/24 13:59
Iron	2.00	U	ND		1.95	mg/L	1.54	96.5	(0%-20%)		
Lead	0.0500	U	ND		0.0475	mg/L	3.08	95.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	3.94	99.4	(0%-20%)		
Magnesium	2.00		26.0		27.4	mg/L	4.43	N/A	(0%-20%)		
Manganese	0.0500	U	ND		0.0485	mg/L	2.41	96.4	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0507	mg/L	2.92	101	(0%-20%)		
Potassium	2.00		1.22		3.13	mg/L	3.65	95.6	(0%-20%)		
Selenium	0.0500	J	0.00304		0.0516	mg/L	4.88	97.1	(0%-20%)		
Sodium	2.00		23.4		24.8	mg/L	6.05	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0438	mg/L	2.58	87.5	(0%-20%)		
QC1205840134 683387001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 14:07
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			50.2		10.0	ug/L	.157		(0%-20%)		

QC Summary

Workorder: **683390**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/08/24 14:07
Boron		72.1	J	13.8	ug/L	4.32		(0%-20%)		
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium		46400		9270	ug/L	.154		(0%-20%)		
Chromium		10.1	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		26000		5170	ug/L	.621		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		1220	J	246	ug/L	.831		(0%-20%)		
Selenium	J	3.04	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: 683390

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Sodium		23400		4590	ug/L	1.92		(0%-20%)	PRB	09/08/24 14:07
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665310										
QC1205840305 683387001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/03/24 11:56
QC1205840304 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)		09/03/24 11:53
QC1205840303 MB										
Mercury			U	ND	mg/L					09/03/24 11:51
QC1205840306 683387001 MS										
Mercury	0.00200	U	ND	0.00194	mg/L		96.8	(75%-125%)		09/03/24 12:01
QC1205840307 683387001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/03/24 12:03
Solids Analysis										
Batch 2666217										
QC1205842587 683390004 DUP										
Total Dissolved Solids		310		314	mg/L	1.28		(0%-5%)	KLP1	09/04/24 10:45
QC1205842586 LCS										
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/04/24 10:45
QC1205842585 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 10:45

QC Summary

Workorder: 683390

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2665386										
QC1205840474 LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	JW2	08/30/24 10:32
QC1205840473 MB										
Total Sulfide			U	ND	mg/L					08/30/24 10:32
QC1205840475 683164001 PS										
Total Sulfide	0.400 U	ND		0.399	mg/L		99.6	(75%-125%)		08/30/24 10:32
QC1205840476 683164001 PSD										
Total Sulfide	0.400 U	ND		0.388	mg/L	2.81	96.9	(0%-15%)		08/30/24 10:32
Titration and Ion Analysis										
Batch 2665165										
QC1205839997 LCS										
Alkalinity, Total as CaCO3	50.0			50.5	mg/L		101	(90%-110%)	JW2	08/29/24 16:29
QC1205839998 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		08/29/24 16:31
QC1205839999 LCSD										
Alkalinity, Total as CaCO3	50.0			50.9	mg/L	0.789	102	(0%-20%)		08/29/24 16:30
QC1205840000 LCSD										
Alkalinity, Total as CaCO3	15.0			14.7	mg/L	2.02	98	(0%-20%)		08/29/24 16:32

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

QC Summary

Workorder: **683390**

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

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

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

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

Technical Case Narrative
Georgia Power Company
SDG #: 683390

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665210

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665209

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

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205840130	Method Blank (MB)**ICP-MS**
1205840131	Laboratory Control Sample (LCS)
1205840134	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840132	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205840133	683387001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683390001 (BRA-BRGWC-30I), 683390002 (BRA-BRGWC-47), 683390004 (BRA-BRGWC-52I) and 683390005 (BRA-BRGWC-32S) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683390			
	001	002	004	005

Boron	20X	10X	10X	5X
Calcium	20X	10X	1X	1X
Magnesium	20X	10X	1X	1X
Manganese	20X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665310

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665309

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

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205840303	Method Blank (MB)**CVAA**
1205840304	Laboratory Control Sample (LCS)
1205840307	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840305	683387001(BRA-BRGWC-17SD) Sample Duplicate (DUP)
1205840306	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664760

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

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I

683390005	BRA-BRGWC-32S
1205839266	Method Blank (MB)
1205839267	Laboratory Control Sample (LCS)
1205840176	683390005(BRA-BRGWC-32S) Sample Duplicate (DUP)
1205840177	683390005(BRA-BRGWC-32S) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 683390001 (BRA-BRGWC-30I), 683390004 (BRA-BRGWC-52I) and 683390005 (BRA-BRGWC-32S) were diluted because target analyte concentrations exceeded the calibration range. Samples 683390001 (BRA-BRGWC-30I) and 683390002 (BRA-BRGWC-47) were diluted to minimize matrix effects on instrument performance. Sample 683390002 (BRA-BRGWC-47) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683390			
	001	**002**	**004**	**005**
Chloride	5X	2X	1X	1X
Fluoride	5X	2X	1X	1X
Nitrate-N	5X	2X	1X	1X
Sulfate	200X	100X	10X	20X

Miscellaneous Information

Manual Integrations
Samples 1205840176 (BRA-BRGWC-32SDUP), 1205840177 (BRA-BRGWC-32SPS), 683390004 (BRA-BRGWC-52I) and 683390005 (BRA-BRGWC-32S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666217

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

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205842585	Method Blank (MB)

1205842586	Laboratory Control Sample (LCS)
1205842587	683390004(BRA-BRGWC-52I) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 683390001 (BRA-BRGWC-30I) and 683390002 (BRA-BRGWC-47).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2665386

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

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205840473	Method Blank (MB)
1205840474	Laboratory Control Sample (LCS)
1205840475	683164001(NonSDG) Post Spike (PS)
1205840476	683164001(NonSDG) Post Spike Duplicate (PSD)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205840475 (Non SDG 683164001PS) and 1205840476 (Non SDG 683164001PSD) in this sample group were diluted due to limited sample quantity. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16

Analytical Batch: 2665165

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

GEL Sample ID#	Client Sample Identification
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
1205839997	Laboratory Control Sample (LCS)
1205839998	Laboratory Control Sample (LCS)
1205839999	Laboratory Control Sample Duplicate (LCSD)
1205840000	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

683390/683391

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

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

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: D. Rochford ACC | Send Results To: SCS & Geosyntec Contacts

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- BRGWC-30I	08/28/24	1305	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC **Task_Code: BRA-CCR-ASSMT-2024S2**
BRA- BRGWC-47	08/28/24	1538	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- APBCD-FB-02	08/28/24	1630	G	N	WQ			8	✓	✓	✓	✓	✓		
BRA- BRGWC-52I	08/28/24	1632	G	N	WG			8	✓	✓	✓	✓	✓		
BRA- BRGWC-32S	08/28/24	1627	G	N	WG			8	✓	✓	✓	✓	✓		
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/29/24	0822		8/29/24	0822
2					8/29/24	1310
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

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

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

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683390/683391 AP

683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 0 2 - 0° 4 - 0° 6 - 1°

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with cooler
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓		✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HPB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 10 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 10, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683387

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683387001	BRA-BRGWC-17S	Ground Water	08/28/24 12:13	08/29/24 13:10
683387002	BRA-BRGWC-33S	Ground Water	08/28/24 14:22	08/29/24 13:10
683387003	BRA-BRGWC-34S	Ground Water	08/28/24 12:43	08/29/24 13:10
683387004	BRA-BRGWC-35S	Ground Water	08/28/24 11:27	08/29/24 13:10
683387005	BRA-BRGWC-36S	Ground Water	08/28/24 10:08	08/29/24 13:10
683387006	BRA-PZ-52D	Ground Water	08/28/24 13:44	08/29/24 13:10
683387007	BRA-PZ-70I	Ground Water	08/28/24 10:06	08/29/24 13:10
683387008	BRA-APE-FD-05	Ground Water	08/28/24 12:00	08/29/24 13:10
683387009	BRA-APE-FB-08	Water	08/28/24 14:30	08/29/24 13:10
683387010	BRA-APE-EB-09	Water	08/28/24 11:00	08/29/24 13:10
683387011	BRA-APE-EB-10	Water	08/28/24 13:10	08/29/24 13:10

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	29-AUG-2024
EPA 300.0	30-AUG-2024
SM 2320B	29-AUG-2024
SM 2540C	04-SEP-2024
SM 4500-S (2-) D	30-AUG-2024
SW846 3005A/6020B	08-SEP-2024
SW846 7470A	03-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683387 GEL Work Order: 683387

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

H Analytical holding time was exceeded

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-17S	Project:	GPCC00101
Sample ID:	683387001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 12:13		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		188	2.66	8.00	mg/L		20	TXT1	08/30/24	0832	2665219	1
Chloride		4.95	0.134	0.400	mg/L		2	TXT1	08/29/24	1812	2665219	2
Fluoride		0.218	0.0660	0.200	mg/L		2					
Nitrate-N		0.248	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1155	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1352	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0502	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0721	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		46.4	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0101	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		26.0	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.22	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00304	0.00150	0.00500	mg/L	1.00	1					
Sodium		23.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		421	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	5
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	6

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-17S
Sample ID: 683387001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		62.9	0.725	2.00	mg/L			JW2	08/29/24	1634	2665165	7
Bicarbonate alkalinity (CaCO3)		62.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 4500-S (2-) D	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-33S
Sample ID: 683387002
Matrix: WG
Collect Date: 28-AUG-24 14:22
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.204	0.0660	0.200	mg/L		2	TXT1	08/29/24	1843	2665219	1
Nitrate-N	U	ND	0.0660	0.200	mg/L		2					
Sulfate		1230	26.6	80.0	mg/L		200	TXT1	08/30/24	0936	2665219	2
Chloride		71.7	1.34	4.00	mg/L		20	TXT1	08/30/24	0904	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1206	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1628	2665210	5
Calcium		369	0.800	2.00	mg/L	1.00	10					
Magnesium		73.2	0.100	0.300	mg/L	1.00	10					
Manganese		5.89	0.0100	0.0500	mg/L	1.00	10					
Sodium		87.6	0.800	2.50	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1417	2665210	6
Arsenic		0.00577	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0511	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00209	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000807	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.104	0.000300	0.00100	mg/L	1.00	1					
Iron		0.105	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0102	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		20.4	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0238	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1880	23.8	100	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-33S
Sample ID: 683387002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		2.70	0.725	2.00	mg/L			JW2	08/29/24	1635	2665165	9
Bicarbonate alkalinity (CaCO3)		2.70	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-34S
Sample ID: 683387003
Matrix: WG
Collect Date: 28-AUG-24 12:43
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.110	0.0330	0.100	mg/L		1	TXT1	08/29/24	1915	2665219	1
Nitrate-N	J	0.0378	0.0330	0.100	mg/L		1					
Sulfate		308	6.65	20.0	mg/L		50	TXT1	08/30/24	1039	2665219	2
Chloride		15.5	0.268	0.800	mg/L		4	TXT1	08/30/24	1008	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1208	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.88	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1631	2665210	5
Calcium		95.9	1.60	4.00	mg/L	1.00	20					
Manganese		3.71	0.0200	0.100	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1421	2665210	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0281	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000205	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00494	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.3	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.89	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		562	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-34S
Sample ID: 683387003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		32.8	0.725	2.00	mg/L			JW2	08/29/24	1636	2665165	9
Bicarbonate alkalinity (CaCO3)		32.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-35S	Project:	GPCC00101
Sample ID:	683387004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 11:27		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	HU	ND	0.132	0.400	mg/L		4	TXT1	08/30/24	1603	2665219	1
Sulfate		251	3.33	10.0	mg/L		25	TXT1	08/30/24	1111	2665219	2
Chloride		6.21	0.0670	0.200	mg/L		1	TXT1	08/29/24	1947	2665219	3
Fluoride	J	0.0609	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1209	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		2.10	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1635	2665210	5
Calcium		59.5	1.60	4.00	mg/L	1.00	20					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1425	2665210	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0267	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00491	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		31.0	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0109	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.77	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		479	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-35S
Sample ID: 683387004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		51.9	0.725	2.00	mg/L			JW2	08/29/24	1638	2665165	9
Bicarbonate alkalinity (CaCO3)		51.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-36S	Project:	GPCC00101
Sample ID:	683387005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 10:08		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.81	0.0670	0.200	mg/L		1	TXT1	08/29/24	2019	2665219	1
Fluoride	J	0.0861	0.0330	0.100	mg/L		1					
Nitrate-N		0.535	0.0330	0.100	mg/L		1					
Sulfate		201	3.33	10.0	mg/L		25	TXT1	08/30/24	1143	2665219	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1211	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1428	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0247	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		41.0	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00617	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		16.7	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00218	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.36	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00159	0.00150	0.00500	mg/L	1.00	1					
Sodium		34.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.04	0.0520	0.150	mg/L	1.00	10	PRB	09/08/24	1638	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		389	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-36S
Sample ID: 683387005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		20.8	0.725	2.00	mg/L			JW2	08/29/24	1639	2665165	8
Bicarbonate alkalinity (CaCO3)		20.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-52D	Project:	GPCC00101
Sample ID:	683387006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 13:44		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.15	0.0670	0.200	mg/L		1	TXT1	08/29/24	2051	2665219	1
Fluoride		2.04	0.0330	0.100	mg/L		1					
Nitrate-N		0.343	0.0660	0.200	mg/L		2	TXT1	08/30/24	0417	2665219	2
Sulfate		72.9	1.33	4.00	mg/L		10	TXT1	08/30/24	0656	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1213	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1432	2665210	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0156	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0751	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		44.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000337	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0163	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.6	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00303	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00922	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.72	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		42.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		303	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-52D
Sample ID: 683387006
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		172	0.725	2.00	mg/L			JW2	08/29/24	1640	2665165	8
Bicarbonate alkalinity (CaCO3)		172	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-70I
Sample ID: 683387007
Matrix: WG
Collect Date: 28-AUG-24 10:06
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.99	0.0670	0.200	mg/L		1	TXT1	08/29/24	2226	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N		0.113	0.0330	0.100	mg/L		1					
Sulfate		128	1.33	4.00	mg/L		10	TXT1	08/30/24	1634	2665219	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00101	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1214	2665310	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1501	2665210	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0198	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000344	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		31.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000686	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0701	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00382	0.00300	0.0100	mg/L	1.00	1					
Magnesium		10.6	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.249	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.93	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00691	0.00150	0.00500	mg/L	1.00	1					
Sodium		18.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.898	0.0260	0.0750	mg/L	1.00	5	PRB	09/08/24	1519	2665210	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		259	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	7

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-70I
Sample ID: 683387007
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		17.1	0.725	2.00	mg/L			JW2	08/29/24	1641	2665165	8
Bicarbonate alkalinity (CaCO3)		17.1	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FD-05	Project:	GPCC00101
Sample ID:	683387008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 12:00		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		259	2.66	8.00	mg/L		20	TXT1	08/30/24	1842	2665219	1
Chloride		6.21	0.0670	0.200	mg/L		1	TXT1	08/30/24	0106	2665219	2
Fluoride	J	0.0970	0.0330	0.100	mg/L		1					
Nitrate-N	HU	ND	0.132	0.400	mg/L		4	TXT1	08/30/24	1810	2665219	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1216	2665310	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1504	2665210	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0262	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000202	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00474	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		30.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00994	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.71	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		17.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.00	0.104	0.300	mg/L	1.00	20	PRB	09/08/24	1642	2665210	6
Calcium		56.4	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		499	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	8

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 683387008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		51.4	0.725	2.00	mg/L			JW2	08/29/24	1643	2665165	9
Bicarbonate alkalinity (CaCO3)		51.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-FB-08	Project:	GPCC00101
Sample ID:	683387009	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 14:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.120	0.0670	0.200	mg/L		1	TXT1	08/30/24	0137	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1221	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1508	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0208	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	5

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 683387009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/24	1644	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-EB-09	Project:	GPCC00101
Sample ID:	683387010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 11:00		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.120	0.0670	0.200	mg/L		1	TXT1	08/30/24	1914	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	H	0.298	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1223	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1512	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00556	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	5

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 683387010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		6.40	0.725	2.00	mg/L			JW2	08/29/24	1645	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)		2.80	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 10, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APE-EB-10	Project:	GPCC00101
Sample ID:	683387011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	28-AUG-24 13:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.117	0.0670	0.200	mg/L		1	TXT1	08/30/24	0241	2665219	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	J	0.0376	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1224	2665310	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/08/24	1515	2665210	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1045	2666217	4
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	08/30/24	1032	2665386	5

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

Certificate of Analysis

Report Date: September 10, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-10 Project: GPCC00101
Sample ID: 683387011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/29/24	1647	2665165	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665209
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665309

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 4500-S (2-) D	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 10, 2024

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

Contact: **Joju Abraham**

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665219										
QC1205840159 683387006 DUP										
Chloride		4.15		4.14	mg/L	0.256		(0%-20%)	TXT1	08/29/24 21:23
Fluoride		2.04		2.03	mg/L	0.378		(0%-20%)		
Nitrate-N		0.343		0.343	mg/L	0.175	^	(+/-0.200)		08/30/24 04:49
Sulfate		72.9		72.7	mg/L	0.18		(0%-20%)		08/30/24 07:28
QC1205840161 683387007 DUP										
Chloride		4.99		5.01	mg/L	0.332		(0%-20%)		08/29/24 22:58
Fluoride	U	ND	U	ND	mg/L	N/A				
Nitrate-N		0.113		0.127	mg/L	11.2	^	(+/-0.100)		
Sulfate		128		129	mg/L	0.344		(0%-20%)		08/30/24 17:06
QC1205840158 LCS										
Chloride	5.00			4.63	mg/L		92.6	(90%-110%)		08/30/24 03:45
Fluoride	2.50			2.46	mg/L		98.4	(90%-110%)		
Nitrate-N	2.50			2.37	mg/L		94.8	(90%-110%)		
Sulfate	10.0			9.41	mg/L		94.1	(90%-110%)		

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665219										
QC1205840157 MB										
Chloride			J	0.116	mg/L				TXT1	08/30/24 03:13
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205840160 683387006 PS										
Chloride	5.00	4.15		9.18	mg/L		101	(90%-110%)		08/29/24 21:54
Fluoride	2.50	2.04		4.63	mg/L		104	(90%-110%)		
Nitrate-N	2.50	0.172		2.41	mg/L		89.6*	(90%-110%)		08/30/24 05:21
Sulfate	10.0	7.29		17.2	mg/L		98.6	(90%-110%)		08/30/24 08:00
QC1205840162 683387007 PS										
Chloride	5.00	4.99		10.2	mg/L		104	(90%-110%)		08/30/24 00:34
Fluoride	2.50 U	ND		2.58	mg/L		103	(90%-110%)		
Nitrate-N	2.50	0.113		2.38	mg/L		90.5	(90%-110%)		
Sulfate	10.0	12.8		23.2	mg/L		103	(90%-110%)		08/30/24 17:38

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
QC1205840131 LCS										
Antimony	0.0500			0.0483	mg/L		96.7	(80%-120%)	PRB	09/08/24 13:41
Arsenic	0.0500			0.0481	mg/L		96.2	(80%-120%)		
Barium	0.0500			0.0496	mg/L		99.3	(80%-120%)		
Beryllium	0.0500			0.0533	mg/L		107	(80%-120%)		
Boron	0.100			0.101	mg/L		101	(80%-120%)		
Cadmium	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Calcium	2.00			2.05	mg/L		103	(80%-120%)		
Chromium	0.0500			0.0484	mg/L		96.8	(80%-120%)		
Cobalt	0.0500			0.0486	mg/L		97.3	(80%-120%)		
Iron	2.00			1.95	mg/L		97.4	(80%-120%)		
Lead	0.0500			0.0495	mg/L		99	(80%-120%)		
Lithium	0.0500			0.0510	mg/L		102	(80%-120%)		
Magnesium	2.00			1.97	mg/L		98.5	(80%-120%)		
Manganese	0.0500			0.0488	mg/L		97.6	(80%-120%)		

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Molybdenum	0.0500			0.0527	mg/L		105	(80%-120%)	PRB	09/08/24 13:41
Potassium	2.00			1.95	mg/L		97.6	(80%-120%)		
Selenium	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Sodium	2.00			1.94	mg/L		96.9	(80%-120%)		
Thallium	0.0500			0.0451	mg/L		90.1	(80%-120%)		
QC1205840130 MB										
Antimony			U	ND	mg/L					09/08/24 13:37
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Iron			U	ND	mg/L				PRB	09/08/24 13:37
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205840132 683387001 MS										
Antimony	0.0500	U	ND	0.0503	mg/L		100	(75%-125%)		09/08/24 13:56
Arsenic	0.0500	U	ND	0.0501	mg/L		99.2	(75%-125%)		
Barium	0.0500		0.0502	0.102	mg/L		103	(75%-125%)		
Beryllium	0.0500	U	ND	0.0538	mg/L		108	(75%-125%)		

QC Summary

Workorder: **683387**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2665210												
Boron	0.100		0.0721		0.180	mg/L		108	(75%-125%)	PRB	09/08/24	13:56
Cadmium	0.0500	U	ND		0.0494	mg/L		98.7	(75%-125%)			
Calcium	2.00		46.4		50.5	mg/L		N/A	(75%-125%)			
Chromium	0.0500		0.0101		0.0592	mg/L		98.1	(75%-125%)			
Cobalt	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)			
Iron	2.00	U	ND		1.98	mg/L		98	(75%-125%)			
Lead	0.0500	U	ND		0.0490	mg/L		98.1	(75%-125%)			
Lithium	0.0500	U	ND		0.0529	mg/L		103	(75%-125%)			
Magnesium	2.00		26.0		28.7	mg/L		N/A	(75%-125%)			
Manganese	0.0500	U	ND		0.0497	mg/L		98.8	(75%-125%)			
Molybdenum	0.0500	U	ND		0.0522	mg/L		104	(75%-125%)			
Potassium	2.00		1.22		3.25	mg/L		101	(75%-125%)			
Selenium	0.0500	J	0.00304		0.0542	mg/L		102	(75%-125%)			
Sodium	2.00		23.4		26.4	mg/L		N/A	(75%-125%)			

QC Summary

Workorder: **683387**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665210											
Thallium	0.0500	U	ND		0.0450	mg/L		89.8	(75%-125%)	PRB	09/08/24 13:56
QC1205840133 683387001 MSD											
Antimony	0.0500	U	ND		0.0488	mg/L	3.08	97.3	(0%-20%)		09/08/24 13:59
Arsenic	0.0500	U	ND		0.0480	mg/L	4.26	95	(0%-20%)		
Barium	0.0500		0.0502		0.0974	mg/L	4.41	94.3	(0%-20%)		
Beryllium	0.0500	U	ND		0.0527	mg/L	2.06	105	(0%-20%)		
Boron	0.100		0.0721		0.172	mg/L	4.57	100	(0%-20%)		
Cadmium	0.0500	U	ND		0.0473	mg/L	4.2	94.7	(0%-20%)		
Calcium	2.00		46.4		48.0	mg/L	5.08	N/A	(0%-20%)		
Chromium	0.0500		0.0101		0.0573	mg/L	3.27	94.3	(0%-20%)		
Cobalt	0.0500	U	ND		0.0479	mg/L	1.75	95.7	(0%-20%)		
Iron	2.00	U	ND		1.95	mg/L	1.54	96.5	(0%-20%)		
Lead	0.0500	U	ND		0.0475	mg/L	3.08	95.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0509	mg/L	3.94	99.4	(0%-20%)		
Magnesium	2.00		26.0		27.4	mg/L	4.43	N/A	(0%-20%)		

QC Summary

Workorder: **683387**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2665210												
Manganese	0.0500	U	ND		0.0485	mg/L	2.41	96.4	(0%-20%)	PRB	09/08/24	13:59
Molybdenum	0.0500	U	ND		0.0507	mg/L	2.92	101	(0%-20%)			
Potassium	2.00		1.22		3.13	mg/L	3.65	95.6	(0%-20%)			
Selenium	0.0500	J	0.00304		0.0516	mg/L	4.88	97.1	(0%-20%)			
Sodium	2.00		23.4		24.8	mg/L	6.05	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0438	mg/L	2.58	87.5	(0%-20%)			
QC1205840134 683387001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24	14:07
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			50.2		10.0	ug/L	.157		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			72.1	J	13.8	ug/L	4.32		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Calcium			46400		9270	ug/L	.154		(0%-20%)			
Chromium			10.1	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665210										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/08/24 14:07
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		26000		5170	ug/L	.621		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		1220	J	246	ug/L	.831		(0%-20%)		
Selenium	J	3.04	U	ND	ug/L	N/A		(0%-20%)		
Sodium		23400		4590	ug/L	1.92		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665310										
QC1205840305 683387001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/03/24 11:56
QC1205840304 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)		09/03/24 11:53

QC Summary

Workorder: 683387

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2665310										
QC1205840303 MB										
Mercury			U	ND	mg/L				JP2	09/03/24 11:51
QC1205840306 683387001 MS										
Mercury	0.00200	U	ND	0.00194	mg/L		96.8	(75%-125%)		09/03/24 12:01
QC1205840307 683387001 SDILT										
Mercury		U	ND	U ND	ug/L	N/A		(0%-10%)		09/03/24 12:03
Solids Analysis										
Batch 2666217										
QC1205842587 683390004 DUP										
Total Dissolved Solids		310		314	mg/L	1.28		(0%-5%)	KLP1	09/04/24 10:45
QC1205842586 LCS										
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/04/24 10:45
QC1205842585 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 10:45
Spectrometric Analysis										
Batch 2665386										
QC1205840474 LCS										
Total Sulfide	0.400			0.408	mg/L		102	(85%-115%)	JW2	08/30/24 10:32
QC1205840473 MB										
Total Sulfide			U	ND	mg/L					08/30/24 10:32
QC1205840475 683164001 PS										
Total Sulfide	0.400	U	ND	0.399	mg/L		99.6	(75%-125%)		08/30/24 10:32
QC1205840476 683164001 PSD										
Total Sulfide	0.400	U	ND	0.388	mg/L	2.81	96.9	(0%-15%)		08/30/24 10:32

QC Summary

Workorder: **683387**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2665165										
QC1205839997 LCS										
Alkalinity, Total as CaCO3	50.0			50.5	mg/L		101	(90%-110%)	JW2	08/29/24 16:29
QC1205839998 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		08/29/24 16:31
QC1205839999 LCSD										
Alkalinity, Total as CaCO3	50.0			50.9	mg/L	0.789	102	(0%-20%)		08/29/24 16:30
QC1205840000 LCSD										
Alkalinity, Total as CaCO3	15.0			14.7	mg/L	2.02	98	(0%-20%)		08/29/24 16:32

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

QC Summary

Workorder: **683387**

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665210

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665209

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

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840130	Method Blank (MB)**ICP-MS**
1205840131	Laboratory Control Sample (LCS)
1205840134	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840132	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)
1205840133	683387001(BRA-BRGWC-17SSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683387002 (BRA-BRGWC-33S), 683387003

(BRA-BRGWC-34S), 683387004 (BRA-BRGWC-35S), 683387005 (BRA-BRGWC-36S), 683387007 (BRA-PZ-70I) and 683387008 (BRA-APE-FD-05) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683387					
	002	**003**	**004**	**005**	**007**	**008**
Boron	10X	20X	20X	10X	5X	20X
Calcium	10X	20X	20X	1X	1X	20X
Magnesium	10X	1X	1X	1X	1X	1X
Manganese	10X	20X	1X	1X	1X	1X
Sodium	10X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665310

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665309

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

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840303	Method Blank (MB)**CVAA**
1205840304	Laboratory Control Sample (LCS)
1205840307	683387001(BRA-BRGWC-17SL) Serial Dilution (SD)
1205840305	683387001(BRA-BRGWC-17SD) Sample Duplicate (DUP)
1205840306	683387001(BRA-BRGWC-17SS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665219

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

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840157	Method Blank (MB)
1205840158	Laboratory Control Sample (LCS)
1205840159	683387006(BRA-PZ-52D) Sample Duplicate (DUP)
1205840160	683387006(BRA-PZ-52D) Post Spike (PS)
1205840161	683387007(BRA-PZ-70I) Sample Duplicate (DUP)
1205840162	683387007(BRA-PZ-70I) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrate-N	1205840160 (BRA-PZ-52DPS)	89.6* (90%-110%)

Technical Information

Holding Times
Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of samples. The data is qualified.

Sample	Analyte	Value

683387004 (BRA-BRGWC-35S)	Nitrate-N	Received 29-AUG-24, within holding, analyzed 30-AUG-24, out of holding 30-AUG-24
683387008 (BRA-APE-FD-05)	Nitrate-N	Received 29-AUG-24, within holding, analyzed 30-AUG-24, out of holding 30-AUG-24
683387010 (BRA-APE-EB-09)	Nitrate-N	Received 29-AUG-24, within holding, analyzed 30-AUG-24, out of holding 30-AUG-24

Sample Dilutions
The following samples 1205840159 (BRA-PZ-52DDUP), 1205840160 (BRA-PZ-52DPS), 1205840161 (BRA-PZ-70IDUP), 1205840162 (BRA-PZ-70IPS), 683387001 (BRA-BRGWC-17S), 683387002 (BRA-BRGWC-33S), 683387003 (BRA-BRGWC-34S), 683387004 (BRA-BRGWC-35S), 683387005 (BRA-BRGWC-36S), 683387006 (BRA-PZ-52D), 683387007 (BRA-PZ-70I) and 683387008 (BRA-APE-FD-05) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205840159 (BRA-PZ-52DDUP), 1205840160 (BRA-PZ-52DPS), 683387004 (BRA-BRGWC-35S), 683387006 (BRA-PZ-52D) and 683387008 (BRA-APE-FD-05) in this sample group were diluted due to matrix interference. Samples 683387001 (BRA-BRGWC-17S) and 683387002 (BRA-BRGWC-33S) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683387							
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**
Chloride	2X	20X	4X	1X	1X	1X	1X	1X
Fluoride	2X	2X	1X	1X	1X	1X	1X	1X
Nitrate-N	2X	2X	1X	4X	1X	2X	1X	4X
Sulfate	20X	200X	50X	25X	25X	10X	10X	20X

Sample Re-analysis
Sample 683387010 (BRA-APE-EB-09) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations
Samples 1205840159 (BRA-PZ-52DDUP), 1205840161 (BRA-PZ-70IDUP), 683387001 (BRA-BRGWC-17S), 683387002 (BRA-BRGWC-33S), 683387004 (BRA-BRGWC-35S), 683387005 (BRA-BRGWC-36S), 683387006 (BRA-PZ-52D) and 683387008 (BRA-APE-FD-05) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666217

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

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S

683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205842585	Method Blank (MB)
1205842586	Laboratory Control Sample (LCS)
1205842587	683390004(BRA-BRGWC-52I) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 683387002 (BRA-BRGWC-33S).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2665386

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

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205840473	Method Blank (MB)
1205840474	Laboratory Control Sample (LCS)
1205840475	683164001(NonSDG) Post Spike (PS)
1205840476	683164001(NonSDG) Post Spike Duplicate (PSD)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205840475 (Non SDG 683164001PS) and 1205840476 (Non SDG 683164001PSD) in this sample group were diluted due to limited sample quantity. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665165

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

GEL Sample ID#	Client Sample Identification
683387001	BRA-BRGWC-17S
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
1205839997	Laboratory Control Sample (LCS)
1205839998	Laboratory Control Sample (LCS)
1205839999	Laboratory Control Sample Duplicate (LCSD)
1205840000	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

683387 / 683389

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

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

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

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- BRGWC-175	08/28/24	1213	G	N	WG	N	N	8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC
BRA- BRGWC-335	08/28/24	1422	G	N	WG	N	N	8	✓	✓	✓	✓	✓		Task_Code: BRA-CCR-ASSMT-2024S2
BRA- BRGWC-345	08/28/24	1243	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- BRGWC-355	08/28/24	1127	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- BRGWC-365	08/28/24	1008	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- PZ-52D	08/28/24	1344	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- PZ-70I	08/28/24	1006	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-FD-05	08/28/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-FB-08	08/28/24	1430	G	N	WQ	N	N	8	✓	✓	✓	✓	✓		
BRA- APE-EB-09	08/28/24	1100	G	N	WQ	N	N	8	✓	✓	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-29-24	0822		8/29/24	0822
2					8/29/24	1310
3						

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

Fax Results: [ ] Yes [x] No

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

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

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

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

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

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

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

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- AFE-EB-10	08/28/24	1310	G	N	WG	N	N	8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Gosle	8-29-24	0822		8/29/24	0822
2				Cwilmarth	8/29/24	1310
3						

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

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

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

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

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683390/683391 AP
683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 8° 2 - 0° 4 - 0° 6 - 1°

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with COC
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 10 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 03, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683468

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 683468 in the left-hand footer of the data report. Package revision 01 to include results for Fluoride.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683468001	BRA-PZ-50D	Ground Water	08/29/24 10:00	08/30/24 08:30
683468002	BRA-PZ-64I	Ground Water	08/29/24 11:35	08/30/24 08:30
683468003	BRA-PZ-61I	Ground Water	08/29/24 12:05	08/30/24 08:30
683468004	BRA-BRGWC-50	Ground Water	08/29/24 13:30	08/30/24 08:30
683468005	BRA-PZ-51D	Ground Water	08/29/24 13:40	08/30/24 08:30
683468006	BRA-APBCD-FB-03	Water	08/29/24 15:00	08/30/24 08:30
683468007	BRA-APBCD-FD-03	Ground Water	08/29/24 12:00	08/30/24 08:30
683468008	BRA-PZ-51I	Ground Water	08/29/24 14:20	08/30/24 08:30
683468009	BRA-APBCD-EB-06	Water	08/29/24 14:45	08/30/24 08:30
683468010	BRA-PZ-60I	Ground Water	08/29/24 12:44	08/30/24 08:30
683468011	BRA-PZ-58I	Ground Water	08/29/24 15:15	08/30/24 08:30

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	03-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	30-AUG-2024
EPA 300.0	31-AUG-2024
SM 2320B	30-AUG-2024
SM 2540C	04-SEP-2024
SM 4500-S (2-) D	03-SEP-2024
SW846 3005A/6020B	09-SEP-2024
SW846 3005A/6020B	10-SEP-2024
SW846 3005A/6020B	11-SEP-2024
SW846 7470A	04-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683468 GEL Work Order: 683468

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

H Analytical holding time was exceeded

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-50D
Sample ID: 683468001
Matrix: WG
Collect Date: 29-AUG-24 10:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.165	0.0330	0.100	mg/L		1	CH6	08/30/24	1244	2665531	1
Chloride		11.2	0.335	1.00	mg/L		5	CH6	08/31/24	0034	2665531	2
Nitrate-N		0.818	0.165	0.500	mg/L		5					
Sulfate		806	13.3	40.0	mg/L		100	CH6	08/31/24	0339	2665531	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1152	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1608	2665671	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0260	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.111	0.000300	0.00100	mg/L	1.00	1					
Iron		2.01	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0279	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000466	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		45.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.298	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1620	2665671	6
Calcium		197	0.400	1.00	mg/L	1.00	5					
Magnesium		76.6	0.0500	0.150	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1946	2665671	7
Manganese		9.82	0.0500	0.250	mg/L	1.00	50	BAJ	09/11/24	1609	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1490	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-50D
Sample ID: 683468001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		56.9	0.725	2.00	mg/L			JW2	08/30/24	1427	2665536	11
Bicarbonate alkalinity (CaCO3)		56.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-64I
Sample ID: 683468002
Matrix: WG
Collect Date: 29-AUG-24 11:35
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		33.8	0.335	1.00	mg/L		5	CH6	08/30/24	1315	2665531	1
Fluoride	U	ND	0.165	0.500	mg/L		5					
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Sulfate		2300	26.6	80.0	mg/L		200	CH6	08/31/24	0410	2665531	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1203	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/10/24	1639	2665671	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Cadmium	J	0.00411	0.00150	0.00500	mg/L	1.00	5					
Magnesium		222	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	J	0.00888	0.00750	0.0250	mg/L	1.00	5					
Sodium		65.5	0.400	1.25	mg/L	1.00	5					
Beryllium		0.00300	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2020	2665671	5
Barium		0.0119	0.000670	0.00400	mg/L	1.00	1	BAJ	09/10/24	1636	2665671	6
Boron	J	0.0142	0.00520	0.0150	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		1.81	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0134	0.00300	0.0100	mg/L	1.00	1					
Potassium		12.4	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		333	4.00	10.0	mg/L	1.00	50	BAJ	09/10/24	1641	2665671	7
Cobalt		9.65	0.0150	0.0500	mg/L	1.00	50					
Manganese		348	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1615	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3830	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-64I
Sample ID: 683468002
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.7	0.725	2.00	mg/L			JW2	08/30/24	1428	2665536	11
Bicarbonate alkalinity (CaCO3)		14.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-61I
Sample ID: 683468003
Matrix: WG
Collect Date: 29-AUG-24 12:05
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1460	13.3	40.0	mg/L		100	CH6	08/31/24	0441	2665531	1
Chloride		15.3	0.134	0.400	mg/L		2	CH6	08/30/24	1345	2665531	2
Fluoride	J	0.111	0.0660	0.200	mg/L		2					
Nitrate-N	U	ND	0.132	0.400	mg/L		4	CH6	08/31/24	0105	2665531	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1205	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium		0.00173	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2025	2665671	5
Manganese		111	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1616	2665671	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1646	2665671	7
Barium		0.0103	0.000670	0.00400	mg/L	1.00	1					
Cadmium	J	0.000413	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.743	0.000300	0.00100	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0108	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.33	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	BAJ	09/10/24	1648	2665671	8
Boron		0.348	0.0260	0.0750	mg/L	1.00	5					
Calcium		216	0.400	1.00	mg/L	1.00	5					
Magnesium		165	0.0500	0.150	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		59.8	0.400	1.25	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2110	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-61I
Sample ID: 683468003
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		12.7	0.725	2.00	mg/L			JW2	08/30/24	1430	2665536	11
Bicarbonate alkalinity (CaCO3)		12.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-50
Sample ID: 683468004
Matrix: WG
Collect Date: 29-AUG-24 13:30
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.442	0.0330	0.100	mg/L		1	CH6	08/30/24	1416	2665531	1
Sulfate		1390	13.3	40.0	mg/L		100	CH6	08/31/24	0511	2665531	2
Chloride		15.1	0.134	0.400	mg/L		2	CH6	08/31/24	0135	2665531	3
Nitrate-N	U	ND	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1206	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.393	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1700	2665671	5
Calcium		232	0.400	1.00	mg/L	1.00	5					
Cobalt		1.36	0.00150	0.00500	mg/L	1.00	5					
Magnesium		156	0.0500	0.150	mg/L	1.00	5					
Sodium		50.7	0.400	1.25	mg/L	1.00	5					
Manganese		79.4	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1617	2665671	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1657	2665671	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0156	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00742	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.230	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0433	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium		0.00868	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2031	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2140	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 683468004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.9	0.725	2.00	mg/L			JW2	08/30/24	1431	2665536	11
Bicarbonate alkalinity (CaCO3)		10.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51D
Sample ID: 683468005
Matrix: WG
Collect Date: 29-AUG-24 13:40
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Nitrate-N	U	ND	0.0660	0.200	mg/L		2	CH6	08/31/24	1308	2665531	1
Sulfate		361	6.65	20.0	mg/L		50	CH6	08/31/24	0644	2665531	2
Chloride		17.9	0.268	0.800	mg/L		4	CH6	08/31/24	0206	2665531	3
Fluoride		0.326	0.0330	0.100	mg/L		1	CH6	08/30/24	1447	2665531	4
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1208	2665644	5
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1704	2665671	6
Arsenic	J	0.00356	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0471	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0366	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000506	0.000300	0.00100	mg/L	1.00	1					
Iron		3.37	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00392	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00192	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		127	0.400	1.00	mg/L	1.00	5	BAJ	09/10/24	1707	2665671	7
Sodium		51.4	0.400	1.25	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2037	2665671	8
Manganese		1.41	0.00500	0.0250	mg/L	1.00	5	BAJ	09/11/24	1618	2665671	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		800	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	11

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51D
Sample ID: 683468005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		129	0.725	2.00	mg/L			JW2	08/30/24	1433	2665536	12
Bicarbonate alkalinity (CaCO3)		129	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	SW846 7470A	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-03
Sample ID: 683468006
Matrix: WQ
Collect Date: 29-AUG-24 15:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	1518	2665531	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1210	2665644	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1932	2665671	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1547	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1606	2665671	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	7

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 683468006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1436	2665536	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-03
Sample ID: 683468007
Matrix: WG
Collect Date: 29-AUG-24 12:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		15.2	0.134	0.400	mg/L		2	CH6	08/30/24	1549	2665531	1
Fluoride		0.472	0.0660	0.200	mg/L		2					
Sulfate		1380	13.3	40.0	mg/L		100	CH6	08/31/24	0715	2665531	2
Nitrate-N	U	ND	0.132	0.400	mg/L		4	CH6	08/31/24	0237	2665531	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1211	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		80.2	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1619	2665671	5
Boron		0.399	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1712	2665671	6
Calcium		234	0.400	1.00	mg/L	1.00	5					
Cobalt		1.36	0.00150	0.00500	mg/L	1.00	5					
Magnesium		157	0.0500	0.150	mg/L	1.00	5					
Sodium		50.4	0.400	1.25	mg/L	1.00	5					
Beryllium		0.00878	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2048	2665671	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1709	2665671	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0158	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00732	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0439	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1930	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 683468007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		10.2	0.725	2.00	mg/L			JW2	08/30/24	1437	2665536	11
Bicarbonate alkalinity (CaCO3)		10.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51I
Sample ID: 683468008
Matrix: WG
Collect Date: 29-AUG-24 14:20
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		1290	13.3	40.0	mg/L		100	CH6	08/31/24	0746	2665531	1
Fluoride	J	0.0805	0.0330	0.100	mg/L		1	CH6	08/30/24	1620	2665531	2
Chloride		9.77	0.134	0.400	mg/L		2	CH6	08/31/24	0308	2665531	3
Nitrate-N	U	ND	0.0660	0.200	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1216	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2054	2665671	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1721	2665671	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0135	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00181	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0246	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0681	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0260	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000288	0.000200	0.00100	mg/L	1.00	1					
Potassium		11.2	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		46.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.443	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1723	2665671	7
Calcium		231	0.400	1.00	mg/L	1.00	5					
Magnesium		146	0.0500	0.150	mg/L	1.00	5					
Manganese		52.0	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1620	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2010	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-51I
Sample ID: 683468008
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		23.8	0.725	2.00	mg/L			JW2	08/30/24	1438	2665536	11
Bicarbonate alkalinity (CaCO3)		23.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-06
Sample ID: 683468009
Matrix: WQ
Collect Date: 29-AUG-24 14:45
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	1651	2665531	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1218	2665644	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1549	2665671	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0112	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1934	2665671	4
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1607	2665671	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	7

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 683468009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1439	2665536	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-60I
Sample ID: 683468010
Matrix: WG
Collect Date: 29-AUG-24 12:44
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.30	0.0660	0.200	mg/L		2	CH6	08/30/24	1823	2665531	1
Sulfate		1980	26.6	80.0	mg/L		200	CH6	08/31/24	1817	2665531	2
Chloride		27.1	0.335	1.00	mg/L		5	CH6	08/31/24	1238	2665531	3
Nitrate-N	U	ND	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1220	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Barium		0.0203	0.000670	0.00400	mg/L	1.00	1	BAJ	09/10/24	1728	2665671	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Iron		2.31	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.103	0.00300	0.0100	mg/L	1.00	1					
Potassium		13.1	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		322	2.00	5.00	mg/L	1.00	25	BAJ	09/10/24	1733	2665671	6
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/10/24	1730	2665671	7
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.318	0.0260	0.0750	mg/L	1.00	5					
Cadmium		0.0156	0.00150	0.00500	mg/L	1.00	5					
Cobalt		3.66	0.00150	0.00500	mg/L	1.00	5					
Magnesium		202	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		64.4	0.400	1.25	mg/L	1.00	5					
Beryllium		0.0671	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2059	2665671	8
Manganese		191	0.500	2.50	mg/L	1.00	500	BAJ	09/11/24	1623	2665671	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3270	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	10
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	11

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-60I
Sample ID: 683468010
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1441	2665536	12
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SW846 3005A/6020B	
10	SM 2540C	
11	SM 4500-S (2-) D	
12	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-58I
Sample ID: 683468011
Matrix: WG
Collect Date: 29-AUG-24 15:15
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		13.6	0.134	0.400	mg/L		2	CH6	08/30/24	1450	2665497	1
Fluoride		1.36	0.0660	0.200	mg/L		2					
Sulfate		1200	13.3	40.0	mg/L		100	CH6	08/31/24	0241	2665497	2
Nitrate-N		1.52	0.132	0.400	mg/L		4	CH6	08/30/24	1858	2665497	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1221	2665644	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Manganese		45.5	0.100	0.500	mg/L	1.00	100	BAJ	09/11/24	1624	2665671	5
Boron		0.444	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1744	2665671	6
Calcium		209	0.400	1.00	mg/L	1.00	5					
Iron		63.0	0.165	0.500	mg/L	1.00	5					
Magnesium		109	0.0500	0.150	mg/L	1.00	5					
Beryllium		0.0393	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2105	2665671	7
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1742	2665671	8
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0164	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00519	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.622	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000884	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0602	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.99	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00576	0.00150	0.00500	mg/L	1.00	1					
Sodium		39.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: October 3, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-58I
Sample ID: 683468011
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1442	2665536	11
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: October 3, 2024

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

Contact: **Joju Abraham**

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665497										
QC1205840892 683471005 DUP										
Chloride		18.1		18.2	mg/L	0.0881 ^		(+/-4.00)	CH6	08/31/24 06:17
Fluoride		0.126		0.127	mg/L	0.395 ^		(+/-0.100)		08/31/24 00:37
Nitrate-N	U	ND	U	ND	mg/L	N/A				
Sulfate		280		280	mg/L	0.106		(0%-20%)		08/31/24 06:17
QC1205840891 LCS										
Chloride	5.00			4.68	mg/L		93.6	(90%-110%)		08/31/24 00:06
Fluoride	2.50			2.33	mg/L		93.4	(90%-110%)		
Nitrate-N	2.50			2.37	mg/L		94.8	(90%-110%)		
Sulfate	10.0			9.40	mg/L		94	(90%-110%)		
QC1205840890 MB										
Chloride			U	ND	mg/L					08/30/24 22:34
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2665497											
QC1205840893 683471005 PS											
Chloride	5.00		0.907		5.66	mg/L		95.1	(90%-110%)	CH6	08/31/24 06:48
Fluoride	2.50		0.126		2.50	mg/L		94.9	(90%-110%)		08/31/24 01:08
Nitrate-N	2.50	U	ND		2.39	mg/L		95.5	(90%-110%)		
Sulfate	10.0		14.0		24.3	mg/L		103	(90%-110%)		08/31/24 06:48
Batch 2665531											
QC1205840963 683468010 DUP											
Chloride			27.1		27.1	mg/L	0.048		(0%-20%)	CH6	08/31/24 13:39
Fluoride			1.30		1.31	mg/L	0.997		(0%-20%)		08/30/24 18:54
Nitrate-N		U	ND	HU	ND	mg/L	N/A				08/31/24 13:39
Sulfate			1980		1990	mg/L	0.285		(0%-20%)		08/31/24 18:48
QC1205840962 LCS											
Chloride	5.00				4.70	mg/L		94.1	(90%-110%)		08/30/24 23:01
Fluoride	2.50				2.36	mg/L		94.3	(90%-110%)		
Nitrate-N	2.50				2.37	mg/L		95	(90%-110%)		
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)		
QC1205840961 MB											
Chloride				U	ND	mg/L					08/30/24 22:30

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2665531											
Fluoride				U	ND	mg/L				CH6	08/30/24 22:30
Nitrate-N				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205840964 683468010 PS											
Chloride	5.00		5.42		10.7	mg/L		105	(90%-110%)		08/31/24 14:10
Fluoride	2.50		0.649		3.14	mg/L		99.6	(90%-110%)		08/30/24 19:25
Nitrate-N	2.50	U	ND	H	2.30	mg/L		91.8	(90%-110%)		08/31/24 14:10
Sulfate	10.0		9.92		19.7	mg/L		97.4	(90%-110%)		08/31/24 19:19
Metals Analysis - ICPMS											
Batch 2665671											
QC1205841255 LCS											
Antimony	0.0500				0.0491	mg/L		98.3	(80%-120%)	BAJ	09/10/24 15:44
Arsenic	0.0500				0.0527	mg/L		105	(80%-120%)		
Barium	0.0500				0.0488	mg/L		97.5	(80%-120%)		
Beryllium	0.0500				0.0600	mg/L		120	(80%-120%)		09/09/24 19:29
Boron	0.100				0.113	mg/L		113	(80%-120%)		09/10/24 15:44
Cadmium	0.0500				0.0505	mg/L		101	(80%-120%)		

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Calcium	2.00			2.10	mg/L		105	(80%-120%)	BAJ	09/10/24 15:44
Chromium	0.0500			0.0511	mg/L		102	(80%-120%)		
Cobalt	0.0500			0.0508	mg/L		102	(80%-120%)		
Iron	2.00			2.01	mg/L		101	(80%-120%)		
Lead	0.0500			0.0516	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0593	mg/L		119	(80%-120%)		
Magnesium	2.00			2.25	mg/L		113	(80%-120%)		
Manganese	0.0500			0.0514	mg/L		103	(80%-120%)		09/11/24 16:05
Molybdenum	0.0500			0.0509	mg/L		102	(80%-120%)		09/10/24 15:44
Potassium	2.00			2.14	mg/L		107	(80%-120%)		
Selenium	0.0500			0.0509	mg/L		102	(80%-120%)		
Sodium	2.00			2.29	mg/L		115	(80%-120%)		
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
QC1205841254 MB										
Antimony			U	ND	mg/L					09/10/24 15:42

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Arsenic			U	ND	mg/L				BAJ	09/10/24 15:42
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/09/24 19:26
Boron			U	ND	mg/L					09/10/24 15:42
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					09/11/24 16:04
Molybdenum			U	ND	mg/L					09/10/24 15:42

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Potassium				U	ND	mg/L				BAJ	09/10/24 15:42
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205841256 683468001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		09/10/24 16:10
Arsenic	0.0500	U	ND		0.0552	mg/L		107	(75%-125%)		
Barium	0.0500		0.0260		0.0752	mg/L		98.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0533	mg/L		106	(75%-125%)		09/09/24 19:49
Boron	0.100		0.298		0.395	mg/L		97.7	(75%-125%)		09/10/24 16:22
Cadmium	0.0500	U	ND		0.0493	mg/L		98.5	(75%-125%)		09/10/24 16:10
Calcium	2.00		197		203	mg/L		N/A	(75%-125%)		09/10/24 16:22
Chromium	0.0500	U	ND		0.0491	mg/L		98.2	(75%-125%)		09/10/24 16:10
Cobalt	0.0500		0.111		0.161	mg/L		99.9	(75%-125%)		
Iron	2.00		2.01		4.01	mg/L		99.6	(75%-125%)		

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Lead	0.0500	U	ND		0.0462	mg/L		92.3	(75%-125%)	BAJ	09/10/24 16:10
Lithium	0.0500		0.0279		0.0826	mg/L		109	(75%-125%)		
Magnesium	2.00		76.6		79.0	mg/L		N/A	(75%-125%)		09/10/24 16:22
Manganese	0.0500		9.82		10.2	mg/L		N/A	(75%-125%)		09/11/24 16:10
Molybdenum	0.0500	J	0.000466		0.0536	mg/L		106	(75%-125%)		09/10/24 16:10
Potassium	2.00		11.2		13.3	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0571	mg/L		114	(75%-125%)		
Sodium	2.00		45.8		48.7	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
QC1205841257 683468001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	0.666	99.8	(0%-20%)		09/10/24 16:13
Arsenic	0.0500	U	ND		0.0544	mg/L	1.45	105	(0%-20%)		
Barium	0.0500		0.0260		0.0722	mg/L	4.18	92.4	(0%-20%)		
Beryllium	0.0500	U	ND		0.0528	mg/L	1.04	105	(0%-20%)		09/09/24 19:51
Boron	0.100		0.298		0.388	mg/L	1.93	90.1	(0%-20%)		09/10/24 16:25

QC Summary

Workorder: **683468**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Cadmium	0.0500	U	ND		0.0487	mg/L	1.27	97.3	(0%-20%)	BAJ	09/10/24 16:13
Calcium	2.00		197		201	mg/L	0.721	N/A	(0%-20%)		09/10/24 16:25
Chromium	0.0500	U	ND		0.0488	mg/L	0.699	97.5	(0%-20%)		09/10/24 16:13
Cobalt	0.0500		0.111		0.160	mg/L	0.857	97.1	(0%-20%)		
Iron	2.00		2.01		3.94	mg/L	1.65	96.3	(0%-20%)		
Lead	0.0500	U	ND		0.0448	mg/L	3.02	89.5	(0%-20%)		
Lithium	0.0500		0.0279		0.0812	mg/L	1.7	107	(0%-20%)		
Magnesium	2.00		76.6		79.2	mg/L	0.15	N/A	(0%-20%)		09/10/24 16:25
Manganese	0.0500		9.82		10.4	mg/L	2.36	N/A	(0%-20%)		09/11/24 16:11
Molybdenum	0.0500	J	0.000466		0.0528	mg/L	1.42	105	(0%-20%)		09/10/24 16:13
Potassium	2.00		11.2		13.1	mg/L	1.53	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0554	mg/L	3.01	111	(0%-20%)		
Sodium	2.00		45.8		47.9	mg/L	1.71	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0443	mg/L	1.74	88.5	(0%-20%)		

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
QC1205841258 683468001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/10/24 16:17
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		26.0		5.69	ug/L	9.47		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/09/24 19:57
Boron		59.5		15.8	ug/L	32.8		(0%-20%)		09/10/24 16:29
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Calcium		39400		8160	ug/L	3.49		(0%-20%)		09/10/24 16:29
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Cobalt		111		24.0	ug/L	8.09		(0%-20%)		
Iron		2010		426	ug/L	5.83		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		27.9	J	5.65	ug/L	1.37		(0%-20%)		
Magnesium		15300		3270	ug/L	6.63		(0%-20%)		09/10/24 16:29
Manganese		196		42.1	ug/L	7.19		(0%-20%)		09/11/24 16:12

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Molybdenum	J	0.466	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/10/24 16:17
Potassium		11200		2360	ug/L	5.45		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		45800		9540	ug/L	4.02		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665644										
QC1205841207 683468001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/04/24 11:57
QC1205841206 LCS										
Mercury	0.00200			0.00198	mg/L		99.2	(80%-120%)		09/04/24 11:48
QC1205841205 MB										
Mercury			U	ND	mg/L					09/04/24 11:47
QC1205841208 683468001 MS										
Mercury	0.00200	U		ND		0.00170	mg/L	85.1	(75%-125%)	09/04/24 11:58
QC1205841209 683468001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/04/24 12:00
Solids Analysis										
Batch 2666218										
QC1205842591 683468001 DUP										
Total Dissolved Solids		1490		1240	mg/L	18.3 *		(0%-5%)	KLP1	09/04/24 11:05

QC Summary

Workorder: 683468

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666218										
QC1205842592 683471004 DUP										
Total Dissolved Solids		492		493	mg/L	0.203		(0%-5%)	KLP1	09/04/24 11:05
QC1205842590 LCS										
Total Dissolved Solids	300			300	mg/L		100	(95%-105%)		09/04/24 11:05
QC1205842589 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 11:05
Spectrometric Analysis										
Batch 2666112										
QC1205842332 LCS										
Total Sulfide	0.400			0.405	mg/L		101	(85%-115%)	JW2	09/03/24 10:08
QC1205842331 MB										
Total Sulfide			U	ND	mg/L					09/03/24 10:08
QC1205842333 683468001 PS										
Total Sulfide	0.400	U	ND	0.402	mg/L		100	(75%-125%)		09/03/24 10:08
QC1205842335 683471004 PS										
Total Sulfide	0.400	U	ND	0.388	mg/L		97	(75%-125%)		09/03/24 10:08
QC1205842334 683468001 PSD										
Total Sulfide	0.400	U	ND	0.392	mg/L	2.47	98	(0%-15%)		09/03/24 10:08
QC1205842336 683471004 PSD										
Total Sulfide	0.400	U	ND	0.377	mg/L	2.89	94.3	(0%-15%)		09/03/24 10:08
Titration and Ion Analysis										
Batch 2665536										
QC1205840987 LCS										
Alkalinity, Total as CaCO3	50.0			50.6	mg/L		101	(90%-110%)	JW2	08/30/24 14:22

QC Summary

Workorder: **683468**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2665536											
QC1205840988 LCS											
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)	JW2	08/30/24	14:24
QC1205840989 LCSD											
Alkalinity, Total as CaCO3	50.0			50.3	mg/L	0.595	101	(0%-20%)		08/30/24	14:23
QC1205840990 LCSD											
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	4.71	101	(0%-20%)		08/30/24	14:25

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **683468**

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

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665671

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665670

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

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205841254	Method Blank (MB)**ICP-MS**
1205841255	Laboratory Control Sample (LCS)
1205841258	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841256	683468001(BRA-PZ-50DS) Matrix Spike (MS)
1205841257	683468001(BRA-PZ-50DSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683468001 (BRA-PZ-50D), 683468002

(BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468004 (BRA-BRGWC-50), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I), 683468010 (BRA-PZ-60I) and 683468011 (BRA-PZ-58I) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I) and 683468010 (BRA-PZ-60I) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	683468								
	001	**002**	**003**	**004**	**005**	**007**	**008**	**010**	**011**
Antimony	1X	5X	1X	1X	1X	1X	1X	5X	1X
Arsenic	1X	5X	5X	1X	1X	1X	1X	5X	1X
Boron	5X	1X	5X	5X	1X	5X	5X	5X	5X
Cadmium	1X	5X	1X	1X	1X	1X	1X	5X	1X
Calcium	5X	50X	5X	5X	5X	5X	5X	25X	5X
Cobalt	1X	50X	1X	5X	1X	5X	1X	5X	1X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	5X
Magnesium	5X	5X	5X	5X	1X	5X	5X	5X	5X
Manganese	50X	500X	500X	500X	5X	500X	500X	500X	100X
Molybdenum	1X	5X	1X	1X	1X	1X	1X	5X	1X
Selenium	1X	5X	5X	1X	1X	1X	1X	5X	1X
Sodium	1X	5X	5X	5X	5X	5X	1X	5X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665644

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665643

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

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205841205	Method Blank (MB)**CVAA**
1205841206	Laboratory Control Sample (LCS)
1205841209	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841207	683468001(BRA-PZ-50DD) Sample Duplicate (DUP)
1205841208	683468001(BRA-PZ-50DS) Matrix Spike (MS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
Double potassium permanganate was added to the sample and associated QC to prevent premature reduction of the reagent. 1205841205 (MB) and 1205841206 (LCS).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665497

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

GEL Sample ID#	Client Sample Identification
683468011	BRA-PZ-58I
1205840890	Method Blank (MB)
1205840891	Laboratory Control Sample (LCS)
1205840892	683471005(BRA-PZ-68D) Sample Duplicate (DUP)
1205840893	683471005(BRA-PZ-68D) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205840892 (BRA-PZ-68DDUP), 1205840893 (BRA-PZ-68DPS) and 683468011 (BRA-PZ-58I) were diluted because target analyte concentrations exceeded the calibration range. The following sample 683468011 (BRA-PZ-58I) in this sample group was diluted due to matrix interference. Sample 683468011 (BRA-PZ-58I) was diluted to minimize matrix effects on instrument performance. Sample 683468011 (BRA-PZ-58I) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683468 011
Chloride	2X
Fluoride	2X

Nitrate-N	4X
Sulfate	100X

Miscellaneous Information

Manual Integrations
Samples 1205840892 (BRA-PZ-68DDUP) and 1205840893 (BRA-PZ-68DPS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665531

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

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
1205840961	Method Blank (MB)
1205840962	Laboratory Control Sample (LCS)
1205840963	683468010(BRA-PZ-60I) Sample Duplicate (DUP)
1205840964	683468010(BRA-PZ-60I) Post Spike (PS)

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

Data Summary:

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

Technical Information

Holding Times
Samples (See Below) were initially analyzed within holding; however, the holding times had expired prior to reanalysis of diluted samples. The data is qualified.

Sample	Analyte	Value
1205840963 (BRA-PZ-60IDUP)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 31-AUG-24, out of holding 31-AUG-24
1205840964 (BRA-PZ-60IPS)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 31-AUG-24, out of holding 31-AUG-24

Sample Dilutions
The following samples 1205840963 (BRA-PZ-60IDUP), 1205840964 (BRA-PZ-60IPS), 683468001 (BRA-PZ-50D), 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468004 (BRA-BRGWC-50), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I) and 683468010 (BRA-PZ-60I) were diluted because target analyte concentrations exceeded the calibration range. The following samples 1205840963 (BRA-PZ-60IDUP), 1205840964 (BRA-PZ-60IPS), 683468001 (BRA-PZ-50D), 683468003 (BRA-PZ-61I), 683468004 (BRA-BRGWC-50), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I) and 683468010 (BRA-PZ-60I) in this sample group were diluted due to matrix interference. Samples 683468002 (BRA-PZ-64I) and 683468003 (BRA-PZ-61I) were diluted to minimize matrix effects on instrument performance. Samples 1205840963 (BRA-PZ-60IDUP), 1205840964 (BRA-PZ-60IPS), 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468007 (BRA-APBCD-FD-03) and 683468010 (BRA-PZ-60I) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683468							
	001	**002**	**003**	**004**	**005**	**007**	**008**	**010**
Chloride	5X	5X	2X	2X	4X	2X	2X	5X
Fluoride	1X	5X	2X	1X	1X	2X	1X	2X
Nitrate-N	5X	5X	4X	2X	2X	4X	2X	5X
Sulfate	100X	200X	100X	100X	50X	100X	100X	200X

Miscellaneous Information

Manual Integrations
Sample 683468002 (BRA-PZ-64I) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666218

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

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205842589	Method Blank (MB)
1205842590	Laboratory Control Sample (LCS)
1205842591	683468001(BRA-PZ-50D) Sample Duplicate (DUP)
1205842592	683471004(BRA-BRGWC-25I) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842591 (BRA-PZ-50DDUP)	18.3* (0%-5%)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 1205842591 (BRA-PZ-50DDUP), 683468001 (BRA-PZ-50D), 683468002 (BRA-PZ-64I), 683468003 (BRA-PZ-61I), 683468005 (BRA-PZ-51D), 683468007 (BRA-APBCD-FD-03), 683468008 (BRA-PZ-51I), 683468010 (BRA-PZ-60I) and 683468011 (BRA-PZ-58I).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2666112

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

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205842331	Method Blank (MB)
1205842332	Laboratory Control Sample (LCS)
1205842333	683468001(BRA-PZ-50D) Post Spike (PS)
1205842334	683468001(BRA-PZ-50D) Post Spike Duplicate (PSD)
1205842335	683471004(BRA-BRGWC-25I) Post Spike (PS)
1205842336	683471004(BRA-BRGWC-25I) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665536

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

GEL Sample ID#	Client Sample Identification
683468001	BRA-PZ-50D
683468002	BRA-PZ-64I
683468003	BRA-PZ-61I
683468004	BRA-BRGWC-50
683468005	BRA-PZ-51D
683468006	BRA-APBCD-FB-03
683468007	BRA-APBCD-FD-03
683468008	BRA-PZ-51I
683468009	BRA-APBCD-EB-06
683468010	BRA-PZ-60I
683468011	BRA-PZ-58I
1205840987	Laboratory Control Sample (LCS)
1205840988	Laboratory Control Sample (LCS)
1205840989	Laboratory Control Sample Duplicate (LCSD)
1205840990	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

683479
683468

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

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

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: B. Ford J. May
ACC
Send Results To: SCS & Geosyntec Contacts

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-50D	08/29/24	1060	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-64I	08/29/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-61I	08/29/24	1205	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC50	08/29/24	1330	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51D	08/29/24	1340	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	08/29/24	1500	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-03	08/29/24	✓	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51I	08/29/24	1420	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	08/29/24	1425	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-PZ-60I	08/29/24	1244	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08-30-24	0830		8/30/24	830
2						
3						

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

Fax Results: [ ] Yes [x] No

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

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

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

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

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

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: JBrooks 8/29/24 | ACC | Send Results To: SCS & Geosyntec Contacts

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- P2-58I	08/29/24	1515	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

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

Fax Results: [ ] Yes [x] No

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

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

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683468

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 03 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683471

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683471001	BRA-BRGWC-45	Ground Water	08/29/24 09:55	08/30/24 08:30
683471002	BRA-APBCD-EB-05	Water	08/29/24 10:25	08/30/24 08:30
683471003	BRA-APBCD-FD-02	Ground Water	08/29/24 12:00	08/30/24 08:30
683471004	BRA-BRGWC-25I	Ground Water	08/29/24 10:17	08/30/24 08:30
683471005	BRA-PZ-68D	Ground Water	08/29/24 09:58	08/30/24 08:30

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	31-AUG-2024
SW846 7470A Prep	03-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	30-AUG-2024
EPA 300.0	31-AUG-2024
SM 2320B	30-AUG-2024

SM 2540C	04-SEP-2024
SM 4500-S (2-) D	03-SEP-2024
SW846 3005A/6020B	09-SEP-2024
SW846 3005A/6020B	10-SEP-2024
SW846 3005A/6020B	11-SEP-2024
SW846 7470A	04-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683471 GEL Work Order: 683471

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

H Analytical holding time was exceeded

J Value is estimated

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

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

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

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

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

Reviewed by Hannah Bowden

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

Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	683471001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-AUG-24 09:55		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		24.8	3.35	10.0	mg/L		50	CH6	08/31/24	0312	2665497	1
Sulfate		150	6.65	20.0	mg/L		50					
Fluoride	J	0.0780	0.0330	0.100	mg/L		1	CH6	08/31/24	1242	2665497	2
Nitrate-N	HU	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1223	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1749	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0602	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0431	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		42.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00203	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0353	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		22.0	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000207	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.24	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		15.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		0.140	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1625	2665671	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2116	2665671	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		353	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	7
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	8

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

Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-BRGWC-45	Project:	GPCC00101
Sample ID:	683471001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		38.2	0.725	2.00	mg/L			JW2	08/30/24	1443	2665536	9
Bicarbonate alkalinity (CaCO3)		38.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 4500-S (2-) D	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-APBCD-EB-05	Project:	GPCC00101
Sample ID:	683471002	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	29-AUG-24 10:25		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	1247	2665497	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1224	2665644	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	1937	2665671	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1552	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1608	2665671	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	6
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	7

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

Certificate of Analysis

Report Date: September 16, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 683471002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1444	2665536	8
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 4500-S (2-) D	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 16, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-02
Sample ID: 683471003
Matrix: WG
Collect Date: 29-AUG-24 12:00
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		13.9	1.34	4.00	mg/L		20	CH6	08/31/24	0343	2665497	1
Sulfate		216	2.66	8.00	mg/L		20					
Fluoride		0.253	0.0330	0.100	mg/L		1	CH6	08/30/24	1318	2665497	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1226	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1754	2665671	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0289	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00334	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		28.0	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00127	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.08	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2122	2665671	5
Boron		2.10	0.104	0.300	mg/L	1.00	20	BAJ	09/10/24	1759	2665671	6
Calcium		78.3	0.400	1.00	mg/L	1.00	5	BAJ	09/10/24	1756	2665671	7
Manganese		2.38	0.00500	0.0250	mg/L	1.00	5	BAJ	09/11/24	1626	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		493	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: September 16, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 683471003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		97.8	0.725	2.00	mg/L			JW2	08/30/24	1445	2665536	11
Bicarbonate alkalinity (CaCO3)		97.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 16, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-25I
Sample ID: 683471004
Matrix: WG
Collect Date: 29-AUG-24 10:17
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		13.7	1.34	4.00	mg/L		20	CH6	08/31/24	0413	2665497	1
Sulfate		216	2.66	8.00	mg/L		20					
Fluoride		0.248	0.0330	0.100	mg/L		1	CH6	08/30/24	1348	2665497	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1228	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		77.6	0.400	1.00	mg/L	1.00	5	BAJ	09/10/24	1808	2665671	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1806	2665671	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0291	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00319	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00123	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.86	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		22.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Manganese		2.34	0.00500	0.0250	mg/L	1.00	5	BAJ	09/11/24	1627	2665671	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2128	2665671	7
Boron		2.04	0.104	0.300	mg/L	1.00	20	BAJ	09/10/24	1810	2665671	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		492	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	9
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	10

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

Certificate of Analysis

Report Date: September 16, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-25I
Sample ID: 683471004
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		98.4	0.725	2.00	mg/L			JW2	08/30/24	1447	2665536	11
Bicarbonate alkalinity (CaCO3)		98.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 4500-S (2-) D	
11	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-68D	Project:	GPCC00101
Sample ID:	683471005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-AUG-24 09:58		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		18.1	1.34	4.00	mg/L		20	CH6	08/31/24	0444	2665497	1
Sulfate		280	2.66	8.00	mg/L		20					
Fluoride		0.126	0.0330	0.100	mg/L		1	CH6	08/30/24	1419	2665497	2
Nitrate-N	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/04/24	1229	2665644	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/09/24	2133	2665671	4
Manganese		0.150	0.00100	0.00500	mg/L	1.00	1	BAJ	09/11/24	1628	2665671	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/10/24	1813	2665671	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0796	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000526	0.000300	0.00100	mg/L	1.00	1					
Iron		0.399	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00633	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00702	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.24	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		35.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.404	0.0260	0.0750	mg/L	1.00	5	BAJ	09/10/24	1815	2665671	7
Calcium		96.7	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		601	2.38	10.0	mg/L			KLP1	09/04/24	1105	2666218	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1008	2666112	9

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

Certificate of Analysis

Report Date: September 16, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-68D
Sample ID: 683471005
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		114	0.725	2.00	mg/L			JW2	08/30/24	1448	2665536	10
Bicarbonate alkalinity (CaCO3)		114	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/31/24	0950	2665670
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/03/24	1145	2665643

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 16, 2024

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

Contact: **Joju Abraham**

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2665497										
QC1205840892 683471005 DUP										
Chloride		18.1		18.2	mg/L	0.0881 ^		(+/-4.00)	CH6	08/31/24 06:17
Fluoride		0.126		0.127	mg/L	0.395 ^		(+/-0.100)		08/31/24 00:37
Nitrate-N	U	ND	U	ND	mg/L	N/A				
Sulfate		280		280	mg/L	0.106		(0%-20%)		08/31/24 06:17
QC1205840891 LCS										
Chloride	5.00			4.68	mg/L		93.6	(90%-110%)		08/31/24 00:06
Fluoride	2.50			2.33	mg/L		93.4	(90%-110%)		
Nitrate-N	2.50			2.37	mg/L		94.8	(90%-110%)		
Sulfate	10.0			9.40	mg/L		94	(90%-110%)		
QC1205840890 MB										
Chloride			U	ND	mg/L					08/30/24 22:34
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2665497											
QC1205840893 683471005 PS											
Chloride	5.00		0.907		5.66	mg/L		95.1	(90%-110%)	CH6	08/31/24 06:48
Fluoride	2.50		0.126		2.50	mg/L		94.9	(90%-110%)		08/31/24 01:08
Nitrate-N	2.50	U	ND		2.39	mg/L		95.5	(90%-110%)		
Sulfate	10.0		14.0		24.3	mg/L		103	(90%-110%)		08/31/24 06:48
Metals Analysis - ICPMS											
Batch 2665671											
QC1205841255 LCS											
Antimony	0.0500				0.0491	mg/L		98.3	(80%-120%)	BAJ	09/10/24 15:44
Arsenic	0.0500				0.0527	mg/L		105	(80%-120%)		
Barium	0.0500				0.0488	mg/L		97.5	(80%-120%)		
Beryllium	0.0500				0.0600	mg/L		120	(80%-120%)		09/09/24 19:29
Boron	0.100				0.113	mg/L		113	(80%-120%)		09/10/24 15:44
Cadmium	0.0500				0.0505	mg/L		101	(80%-120%)		
Calcium	2.00				2.10	mg/L		105	(80%-120%)		
Chromium	0.0500				0.0511	mg/L		102	(80%-120%)		
Cobalt	0.0500				0.0508	mg/L		102	(80%-120%)		

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Iron	2.00			2.01	mg/L		101	(80%-120%)	BAJ	09/10/24 15:44
Lead	0.0500			0.0516	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0593	mg/L		119	(80%-120%)		
Magnesium	2.00			2.25	mg/L		113	(80%-120%)		
Manganese	0.0500			0.0514	mg/L		103	(80%-120%)		09/11/24 16:05
Molybdenum	0.0500			0.0509	mg/L		102	(80%-120%)		09/10/24 15:44
Potassium	2.00			2.14	mg/L		107	(80%-120%)		
Selenium	0.0500			0.0509	mg/L		102	(80%-120%)		
Sodium	2.00			2.29	mg/L		115	(80%-120%)		
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
QC1205841254 MB										
Antimony			U	ND	mg/L					09/10/24 15:42
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/09/24 19:26

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2665671											
Boron			U	ND	mg/L				BAJ	09/10/24	15:42
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Magnesium			U	ND	mg/L						
Manganese			U	ND	mg/L					09/11/24	16:04
Molybdenum			U	ND	mg/L					09/10/24	15:42
Potassium			U	ND	mg/L						
Selenium			U	ND	mg/L						
Sodium			U	ND	mg/L						

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Thallium				U	ND	mg/L				BAJ	09/10/24 15:42
QC1205841256 683468001 MS											
Antimony	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		09/10/24 16:10
Arsenic	0.0500	U	ND		0.0552	mg/L		107	(75%-125%)		
Barium	0.0500		0.0260		0.0752	mg/L		98.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0533	mg/L		106	(75%-125%)		09/09/24 19:49
Boron	0.100		0.298		0.395	mg/L		97.7	(75%-125%)		09/10/24 16:22
Cadmium	0.0500	U	ND		0.0493	mg/L		98.5	(75%-125%)		09/10/24 16:10
Calcium	2.00		197		203	mg/L		N/A	(75%-125%)		09/10/24 16:22
Chromium	0.0500	U	ND		0.0491	mg/L		98.2	(75%-125%)		09/10/24 16:10
Cobalt	0.0500		0.111		0.161	mg/L		99.9	(75%-125%)		
Iron	2.00		2.01		4.01	mg/L		99.6	(75%-125%)		
Lead	0.0500	U	ND		0.0462	mg/L		92.3	(75%-125%)		
Lithium	0.0500		0.0279		0.0826	mg/L		109	(75%-125%)		
Magnesium	2.00		76.6		79.0	mg/L		N/A	(75%-125%)		09/10/24 16:22

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Manganese	0.0500		9.82		10.2	mg/L		N/A	(75%-125%)	BAJ	09/11/24 16:10
Molybdenum	0.0500	J	0.000466		0.0536	mg/L		106	(75%-125%)		09/10/24 16:10
Potassium	2.00		11.2		13.3	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0571	mg/L		114	(75%-125%)		
Sodium	2.00		45.8		48.7	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
QC1205841257 683468001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	0.666	99.8	(0%-20%)		09/10/24 16:13
Arsenic	0.0500	U	ND		0.0544	mg/L	1.45	105	(0%-20%)		
Barium	0.0500		0.0260		0.0722	mg/L	4.18	92.4	(0%-20%)		
Beryllium	0.0500	U	ND		0.0528	mg/L	1.04	105	(0%-20%)		09/09/24 19:51
Boron	0.100		0.298		0.388	mg/L	1.93	90.1	(0%-20%)		09/10/24 16:25
Cadmium	0.0500	U	ND		0.0487	mg/L	1.27	97.3	(0%-20%)		09/10/24 16:13
Calcium	2.00		197		201	mg/L	0.721	N/A	(0%-20%)		09/10/24 16:25
Chromium	0.0500	U	ND		0.0488	mg/L	0.699	97.5	(0%-20%)		09/10/24 16:13

QC Summary

Workorder: **683471**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665671											
Cobalt	0.0500		0.111		0.160	mg/L	0.857	97.1	(0%-20%)	BAJ	09/10/24 16:13
Iron	2.00		2.01		3.94	mg/L	1.65	96.3	(0%-20%)		
Lead	0.0500	U	ND		0.0448	mg/L	3.02	89.5	(0%-20%)		
Lithium	0.0500		0.0279		0.0812	mg/L	1.7	107	(0%-20%)		
Magnesium	2.00		76.6		79.2	mg/L	0.15	N/A	(0%-20%)		09/10/24 16:25
Manganese	0.0500		9.82		10.4	mg/L	2.36	N/A	(0%-20%)		09/11/24 16:11
Molybdenum	0.0500	J	0.000466		0.0528	mg/L	1.42	105	(0%-20%)		09/10/24 16:13
Potassium	2.00		11.2		13.1	mg/L	1.53	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0554	mg/L	3.01	111	(0%-20%)		
Sodium	2.00		45.8		47.9	mg/L	1.71	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0443	mg/L	1.74	88.5	(0%-20%)		
QC1205841258 683468001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.0		5.69	ug/L	9.47		(0%-20%)		

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/09/24 19:57
Boron		59.5		15.8	ug/L	32.8		(0%-20%)		09/10/24 16:29
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Calcium		39400		8160	ug/L	3.49		(0%-20%)		09/10/24 16:29
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Cobalt		111		24.0	ug/L	8.09		(0%-20%)		
Iron		2010		426	ug/L	5.83		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		27.9	J	5.65	ug/L	1.37		(0%-20%)		
Magnesium		15300		3270	ug/L	6.63		(0%-20%)		09/10/24 16:29
Manganese		196		42.1	ug/L	7.19		(0%-20%)		09/11/24 16:12
Molybdenum	J	0.466	U	ND	ug/L	N/A		(0%-20%)		09/10/24 16:17
Potassium		11200		2360	ug/L	5.45		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665671										
Sodium		45800		9540	ug/L	4.02		(0%-20%)	BAJ	09/10/24 16:17
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2665644										
QC1205841207 683468001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/04/24 11:57
QC1205841206 LCS										
Mercury 0.00200				0.00198	mg/L		99.2	(80%-120%)		09/04/24 11:48
QC1205841205 MB										
Mercury			U	ND	mg/L					09/04/24 11:47
QC1205841208 683468001 MS										
Mercury 0.00200	U	ND		0.00170	mg/L		85.1	(75%-125%)		09/04/24 11:58
QC1205841209 683468001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/04/24 12:00
Solids Analysis										
Batch 2666218										
QC1205842591 683468001 DUP										
Total Dissolved Solids		1490		1240	mg/L	18.3 *		(0%-5%)	KLP1	09/04/24 11:05
QC1205842592 683471004 DUP										
Total Dissolved Solids		492		493	mg/L	0.203		(0%-5%)		09/04/24 11:05
QC1205842590 LCS										
Total Dissolved Solids 300				300	mg/L		100	(95%-105%)		09/04/24 11:05

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2666218										
QC1205842589 MB										
Total Dissolved Solids			U	ND	mg/L				KLP1	09/04/24 11:05
Spectrometric Analysis										
Batch 2666112										
QC1205842332 LCS										
Total Sulfide	0.400			0.405	mg/L		101	(85%-115%)	JW2	09/03/24 10:08
QC1205842331 MB										
Total Sulfide			U	ND	mg/L					09/03/24 10:08
QC1205842333 683468001 PS										
Total Sulfide	0.400	U	ND	0.402	mg/L		100	(75%-125%)		09/03/24 10:08
QC1205842335 683471004 PS										
Total Sulfide	0.400	U	ND	0.388	mg/L		97	(75%-125%)		09/03/24 10:08
QC1205842334 683468001 PSD										
Total Sulfide	0.400	U	ND	0.392	mg/L	2.47	98	(0%-15%)		09/03/24 10:08
QC1205842336 683471004 PSD										
Total Sulfide	0.400	U	ND	0.377	mg/L	2.89	94.3	(0%-15%)		09/03/24 10:08
Titration and Ion Analysis										
Batch 2665536										
QC1205840987 LCS										
Alkalinity, Total as CaCO3	50.0			50.6	mg/L		101	(90%-110%)	JW2	08/30/24 14:22
QC1205840988 LCS										
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)		08/30/24 14:24
QC1205840989 LCSD										
Alkalinity, Total as CaCO3	50.0			50.3	mg/L	0.595	101	(0%-20%)		08/30/24 14:23

QC Summary

Workorder: **683471**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2665536											
QC1205840990 LCSD											
Alkalinity, Total as CaCO3	15.0			15.2	mg/L	4.71	101	(0%-20%)	JW2	08/30/24	14:25

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **683471**

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

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

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

Technical Case Narrative
Georgia Power Company
SDG #: 683471

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665671

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665670

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

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205841254	Method Blank (MB)**ICP-MS**
1205841255	Laboratory Control Sample (LCS)
1205841258	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841256	683468001(BRA-PZ-50DS) Matrix Spike (MS)
1205841257	683468001(BRA-PZ-50DSD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683471003 (BRA-APBCD-FD-02), 683471004 (BRA-BRGWC-25I) and 683471005 (BRA-PZ-68D) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683471		
	003	004	005

Boron	20X	20X	5X
Calcium	5X	5X	5X
Manganese	5X	5X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665644

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665643

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

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205841205	Method Blank (MB)**CVAA**
1205841206	Laboratory Control Sample (LCS)
1205841209	683468001(BRA-PZ-50DL) Serial Dilution (SD)
1205841207	683468001(BRA-PZ-50DD) Sample Duplicate (DUP)
1205841208	683468001(BRA-PZ-50DS) Matrix Spike (MS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
Double potassium permanganate was added to the sample and associated QC to prevent premature reduction of the reagent. 1205841205 (MB) and 1205841206 (LCS).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2665497

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

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205840890	Method Blank (MB)
1205840891	Laboratory Control Sample (LCS)
1205840892	683471005(BRA-PZ-68D) Sample Duplicate (DUP)
1205840893	683471005(BRA-PZ-68D) Post Spike (PS)

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

Data Summary:

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

Technical Information

Holding Times
Sample (See Below) was initially analyzed within holding; however, the holding time had expired prior to reanalysis of diluted sample. The data is qualified.

Sample	Analyte	Value
683471001 (BRA-BRGWC-45)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 31-AUG-24, out of holding 31-AUG-24

Sample Dilutions
The following samples 1205840892 (BRA-PZ-68DDUP), 1205840893 (BRA-PZ-68DPS), 683471001 (BRA-BRGWC-45), 683471003 (BRA-APBCD-FD-02), 683471004 (BRA-BRGWC-25I) and 683471005 (BRA-PZ-68D) were diluted because target analyte concentrations exceeded the calibration range. The following sample 683471001 (BRA-BRGWC-45) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683471			
	001	003	004	005
Chloride	50X	20X	20X	20X
Sulfate	50X	20X	20X	20X

Sample Re-analysis
Sample 683471001 (BRA-BRGWC-45) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations
Samples 1205840892 (BRA-PZ-68DDUP), 1205840893 (BRA-PZ-68DPS), 683471001 (BRA-BRGWC-45), 683471003 (BRA-APBCD-FD-02), 683471004 (BRA-BRGWC-25I) and 683471005 (BRA-PZ-68D) were manually

integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666218

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

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205842589	Method Blank (MB)
1205842590	Laboratory Control Sample (LCS)
1205842591	683468001(BRA-PZ-50D) Sample Duplicate (DUP)
1205842592	683471004(BRA-BRGWC-25I) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205842591 (BRA-PZ-50DDUP)	18.3* (0%-5%)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 1205842591 (BRA-PZ-50DDUP).

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2666112

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

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05

683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205842331	Method Blank (MB)
1205842332	Laboratory Control Sample (LCS)
1205842333	683468001(BRA-PZ-50D) Post Spike (PS)
1205842334	683468001(BRA-PZ-50D) Post Spike Duplicate (PSD)
1205842335	683471004(BRA-BRGWC-25I) Post Spike (PS)
1205842336	683471004(BRA-BRGWC-25I) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665536

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

GEL Sample ID#	Client Sample Identification
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
1205840987	Laboratory Control Sample (LCS)
1205840988	Laboratory Control Sample (LCS)
1205840989	Laboratory Control Sample Duplicate (LCSD)
1205840990	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

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

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

683471
683474

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Brian Gay 22 May | ACC | Send Results To: SCS & Geosyntec Contacts

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-45	08/29/24	0955	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-05	08/29/24	1025	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-02	08/29/24	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-25I	08/29/24	1017	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-68D	08/29/24	0958	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

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

Fax Results: [ ] Yes [x] No

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

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

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683475

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample collection times were changed by the client from 10:30 to 11:30 on all the containers except for the sample container designated for TDS analysis. Client was notified via email. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683475001	BRA-PZ-63I	Ground Water	08/29/24 11:30	08/30/24 08:30

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	04-SEP-2024
SW846 7470A Prep	04-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	03-SEP-2024
EPA 300.0	04-SEP-2024
SM 2320B	03-SEP-2024
SM 2540C	04-SEP-2024
SM 4500-S (2-) D	03-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 3005A/6020B	09-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683475 GEL Work Order: 683475

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

H Analytical holding time was exceeded

J Value is estimated

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

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

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

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

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

Reviewed by Hannah Bowden

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

Certificate of Analysis

Report Date: September 16, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Branch CCR Groundwater Compliance

Client Sample ID:	BRA-PZ-63I	Project:	GPCC00101
Sample ID:	683475001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-AUG-24 11:30		
Receive Date:	30-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		344	6.65	20.0	mg/L		50	TXT1	09/04/24	1306	2666362	1
Chloride		6.86	0.0670	0.200	mg/L		1	TXT1	09/03/24	1837	2666362	2
Fluoride		0.139	0.0330	0.100	mg/L		1					
Nitrate-N	H	0.754	0.0660	0.200	mg/L		2	TXT1	09/04/24	1235	2666362	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/05/24	1003	2666519	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.731	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	2343	2666441	5
Calcium		65.6	0.400	1.00	mg/L	1.00	5					
Manganese		8.12	0.0250	0.125	mg/L	1.00	25	BAJ	09/09/24	1251	2666441	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/08/24	2329	2666441	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0206	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0335	0.000300	0.00100	mg/L	1.00	1					
Iron		0.741	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00651	0.00300	0.0100	mg/L	1.00	1					
Magnesium		45.0	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000827	0.000200	0.00100	mg/L	1.00	1					
Potassium		8.41	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		625	2.38	10.0	mg/L			KLP1	09/04/24	1124	2666643	8
Spectrometric Analysis												
SM 4500-S(2-) D Sulfide "As Received"												
Total Sulfide	U	ND	0.0330	0.100	mg/L		1	JW2	09/03/24	1703	2666456	9

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

Certificate of Analysis

Report Date: September 16, 2024

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

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-63I
Sample ID: 683475001
Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.5	0.725	2.00	mg/L			JW2	09/03/24	1710	2666454	10
Bicarbonate alkalinity (CaCO3)		22.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/04/24	1115	2666518
SW846 3005A	ICP-MS 3005A PREP	BB2	09/04/24	1510	2666440

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 4500-S (2-) D	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 16, 2024

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

Contact: **Joju Abraham**

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2666362										
QC1205842860 683236002 DUP										
Chloride		7.02		7.06	mg/L	0.503		(0%-20%)	TXT1	09/03/24 15:29
Fluoride		0.859		0.863	mg/L	0.523		(0%-20%)		
Nitrate-N		1.17		1.17	mg/L	0.189		(0%-20%)		
Sulfate		18.3		18.2	mg/L	0.142		(0%-20%)		
QC1205842859 LCS										
Chloride	5.00			4.61	mg/L		92.2	(90%-110%)		09/03/24 14:26
Fluoride	2.50			2.34	mg/L		93.7	(90%-110%)		
Nitrate-N	2.50			2.32	mg/L		92.8	(90%-110%)		
Sulfate	10.0			9.35	mg/L		93.5	(90%-110%)		
QC1205842858 MB										
Chloride			U	ND	mg/L					09/03/24 13:55
Fluoride			U	ND	mg/L					
Nitrate-N			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2666362										
QC1205842861 683236002 PS										
Chloride	5.00	7.02		12.3	mg/L		106	(90%-110%)	TXT1	09/03/24 16:00
Fluoride	2.50	0.859		3.27	mg/L		96.4	(90%-110%)		
Nitrate-N	2.50	1.17		3.54	mg/L		95.2	(90%-110%)		
Sulfate	10.0	18.3		28.8	mg/L		105	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2666441										
QC1205842995 LCS										
Antimony	0.0500			0.0485	mg/L		96.9	(80%-120%)	BAJ	09/08/24 23:21
Arsenic	0.0500			0.0498	mg/L		99.7	(80%-120%)		
Barium	0.0500			0.0487	mg/L		97.4	(80%-120%)		
Beryllium	0.0500			0.0601	mg/L		120	(80%-120%)		
Boron	0.100			0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500			0.0495	mg/L		99	(80%-120%)		
Calcium	2.00			2.05	mg/L		102	(80%-120%)		
Chromium	0.0500			0.0476	mg/L		95.2	(80%-120%)		
Cobalt	0.0500			0.0485	mg/L		97.1	(80%-120%)		

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Iron	2.00			1.90	mg/L		94.8	(80%-120%)	BAJ	09/08/24 23:21
Lead	0.0500			0.0478	mg/L		95.6	(80%-120%)		
Lithium	0.0500			0.0555	mg/L		111	(80%-120%)		
Magnesium	2.00			2.13	mg/L		106	(80%-120%)		
Manganese	0.0500			0.0487	mg/L		97.4	(80%-120%)		09/09/24 12:50
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)		09/08/24 23:21
Potassium	2.00			2.05	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Sodium	2.00			2.17	mg/L		109	(80%-120%)		
Thallium	0.0500			0.0454	mg/L		90.9	(80%-120%)		
QC1205842994 MB										
Antimony			U	ND	mg/L					09/08/24 23:18
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Boron			U	ND	mg/L				BAJ	09/08/24 23:18
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					09/09/24 12:49
Molybdenum			U	ND	mg/L					09/08/24 23:18
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					

QC Summary

Workorder: **683475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2666441											
Thallium				U	ND	mg/L				BAJ	09/08/24 23:18
QC1205842996 683475001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.7	(75%-125%)		09/08/24 23:32
Arsenic	0.0500	U	ND		0.0520	mg/L		100	(75%-125%)		
Barium	0.0500		0.0206		0.0684	mg/L		95.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0610	mg/L		122	(75%-125%)		
Boron	0.100		0.731		0.809	mg/L		N/A	(75%-125%)		09/08/24 23:46
Cadmium	0.0500	U	ND		0.0483	mg/L		96.3	(75%-125%)		09/08/24 23:32
Calcium	2.00		65.6		66.7	mg/L		N/A	(75%-125%)		09/08/24 23:46
Chromium	0.0500	U	ND		0.0479	mg/L		95.4	(75%-125%)		09/08/24 23:32
Cobalt	0.0500		0.0335		0.0796	mg/L		92.3	(75%-125%)		
Iron	2.00		0.741		2.60	mg/L		93.1	(75%-125%)		
Lead	0.0500	U	ND		0.0453	mg/L		90.5	(75%-125%)		
Lithium	0.0500	J	0.00651		0.0620	mg/L		111	(75%-125%)		
Magnesium	2.00		45.0		46.5	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2666441											
Manganese	0.0500		8.12		8.18	mg/L		N/A	(75%-125%)	BAJ	09/09/24 12:52
Molybdenum	0.0500	J	0.000827		0.0535	mg/L		105	(75%-125%)		09/08/24 23:32
Potassium	2.00		8.41		10.4	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0503	mg/L		99.7	(75%-125%)		
Sodium	2.00		19.6		21.4	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0437	mg/L		87.4	(75%-125%)		
QC1205842997 683475001 MSD											
Antimony	0.0500	U	ND		0.0496	mg/L	3.62	99.2	(0%-20%)		09/08/24 23:35
Arsenic	0.0500	U	ND		0.0521	mg/L	0.221	100	(0%-20%)		
Barium	0.0500		0.0206		0.0701	mg/L	2.32	98.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0618	mg/L	1.21	123	(0%-20%)		
Boron	0.100		0.731		0.814	mg/L	0.651	N/A	(0%-20%)		09/08/24 23:49
Cadmium	0.0500	U	ND		0.0504	mg/L	4.17	100	(0%-20%)		09/08/24 23:35
Calcium	2.00		65.6		66.2	mg/L	0.783	N/A	(0%-20%)		09/08/24 23:49
Chromium	0.0500	U	ND		0.0488	mg/L	1.7	97	(0%-20%)		09/08/24 23:35

QC Summary

Workorder: **683475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2666441											
Cobalt	0.0500		0.0335		0.0798	mg/L	0.198	92.6	(0%-20%)	BAJ	09/08/24 23:35
Iron	2.00		0.741		2.64	mg/L	1.26	94.8	(0%-20%)		
Lead	0.0500	U	ND		0.0468	mg/L	3.24	93.5	(0%-20%)		
Lithium	0.0500	J	0.00651		0.0639	mg/L	3.11	115	(0%-20%)		
Magnesium	2.00		45.0		47.2	mg/L	1.31	N/A	(0%-20%)		
Manganese	0.0500		8.12		8.09	mg/L	1.13	N/A	(0%-20%)		09/09/24 12:53
Molybdenum	0.0500	J	0.000827		0.0553	mg/L	3.31	109	(0%-20%)		09/08/24 23:35
Potassium	2.00		8.41		10.5	mg/L	0.437	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0524	mg/L	4.19	104	(0%-20%)		
Sodium	2.00		19.6		21.6	mg/L	0.879	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0453	mg/L	3.69	90.6	(0%-20%)		
QC1205842998 683475001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			20.6	J	3.98	ug/L	3.52		(0%-20%)		

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/08/24 23:40
Boron		146		34.2	ug/L	16.9		(0%-20%)		09/08/24 23:55
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Calcium		13100		2630	ug/L	.303		(0%-20%)		09/08/24 23:55
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Cobalt		33.5		6.83	ug/L	1.95		(0%-20%)		
Iron		741		152	ug/L	2.58		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	6.51	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		45000		9210	ug/L	2.4		(0%-20%)		
Manganese		325		65.8	ug/L	1.29		(0%-20%)		09/09/24 12:54
Molybdenum	J	0.827	U	ND	ug/L	N/A		(0%-20%)		09/08/24 23:40
Potassium		8410		1590	ug/L	5.36		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2666441										
Sodium		19600		4060	ug/L	3.42		(0%-20%)	BAJ	09/08/24 23:40
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2666519										
QC1205843135 683196014 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/05/24 09:57
QC1205843134 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)		09/05/24 09:52
QC1205843133 MB										
Mercury			U	ND	mg/L					09/05/24 09:50
QC1205843136 683196014 MS										
Mercury	0.00200	U	ND	0.00201	mg/L		101	(75%-125%)		09/05/24 09:58
QC1205843137 683196014 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/05/24 10:00
Solids Analysis										
Batch 2666643										
QC1205843360 683782002 DUP										
Total Dissolved Solids		145		151	mg/L	4.05		(0%-5%)	KLP1	09/04/24 11:24
QC1205843359 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		09/04/24 11:24
QC1205843358 MB										
Total Dissolved Solids			U	ND	mg/L					09/04/24 11:24

QC Summary

Workorder: **683475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Spectrometric Analysis										
Batch 2666456										
QC1205843027 LCS										
Total Sulfide	0.400			0.402	mg/L		100	(85%-115%)	JW2	09/03/24 17:03
QC1205843026 MB										
Total Sulfide			U	ND	mg/L					09/03/24 17:03
QC1205843028 683475001 PS										
Total Sulfide	0.400 U	ND		0.386	mg/L		96.4	(75%-125%)		09/03/24 17:03
QC1205843029 683475001 PSD										
Total Sulfide	0.400 U	ND		0.377	mg/L	2.25	94.3	(0%-15%)		09/03/24 17:03
Titration and Ion Analysis										
Batch 2666454										
QC1205843021 LCS										
Alkalinity, Total as CaCO3	50.0			50.7	mg/L		101	(90%-110%)	JW2	09/03/24 17:05
QC1205843034 LCSD										
Alkalinity, Total as CaCO3	50.0			51.1	mg/L	0.786	102	(0%-20%)		09/03/24 17:07

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample

QC Summary

Workorder: **683475**

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

^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2666441

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2666440

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

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205842994	Method Blank (MB)**ICP-MS**
1205842995	Laboratory Control Sample (LCS)
1205842998	683475001(BRA-PZ-63IL) Serial Dilution (SD)
1205842996	683475001(BRA-PZ-63IS) Matrix Spike (MS)
1205842997	683475001(BRA-PZ-63ISD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	**683475**
	001
Boron	5X
Calcium	5X
Manganese	25X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2666519

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2666518

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

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843133	Method Blank (MB)**CVAA**
1205843134	Laboratory Control Sample (LCS)
1205843137	683196014(NonSDGL) Serial Dilution (SD)
1205843135	683196014(NonSDGD) Sample Duplicate (DUP)
1205843136	683196014(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2666362

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

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205842858	Method Blank (MB)
1205842859	Laboratory Control Sample (LCS)
1205842860	683236002(NonSDG) Sample Duplicate (DUP)
1205842861	683236002(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Holding Times
Sample (See Below) was logged in for this analysis outside of the method specified holding time. The data is qualified.

Sample	Analyte	Value
683475001 (BRA-PZ-63I)	Nitrate-N	Received 30-AUG-24, within holding, analyzed 04-SEP-24, out of holding 31-AUG-24

Sample Dilutions
The following sample 683475001 (BRA-PZ-63I) was diluted because target analyte concentrations exceeded the calibration range. The following sample 683475001 (BRA-PZ-63I) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683475 001
Nitrate-N	2X
Sulfate	50X

Miscellaneous Information

Manual Integrations
Samples 1205842860 (Non SDG 683236002DUP), 1205842861 (Non SDG 683236002PS) and 683475001 (BRA-PZ-63I) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666643

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

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843358	Method Blank (MB)
1205843359	Laboratory Control Sample (LCS)
1205843360	683782002(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Product: **Sulfide, Total**
Analytical Method: SM 4500-S (2-) D
Analytical Procedure: GL-GC-E-052 REV# 13
Analytical Batch: 2666456

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

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843026	Method Blank (MB)
1205843027	Laboratory Control Sample (LCS)
1205843028	683475001(BRA-PZ-63I) Post Spike (PS)
1205843029	683475001(BRA-PZ-63I) Post Spike Duplicate (PSD)

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

Data Summary:

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

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2666454

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

GEL Sample ID#	Client Sample Identification
683475001	BRA-PZ-63I
1205843021	Laboratory Control Sample (LCS)
1205843034	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

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

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

683475
683477

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

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- P2-63I	08/29/24	1130	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

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

Fax Results: [ ] Yes [x] No

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

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

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	28 January 2025
To:	Courtney Collins
From:	Ashley Wilson
CC:	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 683169, 683173, 683176, 683387, 683390, 683471 and 683475**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty groundwater samples, four equipment blanks, four field blanks and four field duplicate samples collected 27-29 August 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Nitrate-Nitrogen (N), Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Sulfide by SM 4500-S2-D
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions.

The non-detect results of nitrate as N in samples BRA-BRGWC-45, BRA-APE-FD-05 and BRA-BRGWC-35S were R qualified as rejected due analysis outside of holding time.

The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
683169001	BRA-BRGWC-38S
683169002	BRA-PZ-53D
683169003	BRA-PZ-13S
683169004	BRA-BRGWC-37S
683169005	BRA-APE-FB-07
683169006	BRA-APE-FD-04
683173001	BRA-BRGWA-23S
683173002	BRA-APBCD-FB-01
683173003	BRA-BRGWC-29I
683173004	BRA-BRGWC-27I
683173005	BRA-PZ-74I
683173006	BRA-PZ-75I
683173007	BRA-PZ-44
683173008	BRA-APBCD-FD-01
683173009	BRA-APBCD-EB-04
683176001	BRA-BRGWA-2S
683176002	BRA-BRGWA-5S
683176003	BRA-BRGWA-2I
683176004	BRA-BRGWA-5I
683176005	BRA-BRGWA-6S
683387001	BRA-BRGWC-17S

Laboratory IDs	Client IDs
683387002	BRA-BRGWC-33S
683387003	BRA-BRGWC-34S
683387004	BRA-BRGWC-35S
683387005	BRA-BRGWC-36S
683387006	BRA-PZ-52D
683387007	BRA-PZ-70I
683387008	BRA-APE-FD-05
683387009	BRA-APE-FB-08
683387010	BRA-APE-EB-09
683387011	BRA-APE-EB-10
683390001	BRA-BRGWC-30I
683390002	BRA-BRGWC-47
683390003	BRA-APBCD-FB-02
683390004	BRA-BRGWC-52I
683390005	BRA-BRGWC-32S
683471001	BRA-BRGWC-45
683471002	BRA-APBCD-EB-05
683471003	BRA-APBCD-FD-02
683471004	BRA-BRGWC-25I
683471005	BRA-PZ-68D
683475001	BRA-PZ-63I

The samples were received at 0.0, 2.0 and 1.0 degrees Celsius (^{o}C), both within and outside of the EPA Region 4 criteria of 4^{o}C $\pm$ 2^{o}C. Since the samples were received between 0-6^{o}C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

683176 and 683177: The laboratory noted that the metals containers for samples GWA-2I and BRA-BRGWA-6S were missing labels. The radium container for sample BRA-BRGWA-2S was also noted as missing the label.

683169, 683170, 683173, 683174, 683176 and 683177: The laboratory noted three 1L containers were received without labels.

683471: The laboratory noted that sample BRA-PZ-68D was missing a collection time for TDS. The time was changed to 11:30 by the laboratory.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-38S, BRA-BRGWC-17S and BRA-PZ-63I. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

Batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Four field blanks, BRA-APE-FB-07, BRA-APBCD-FB-01, BRA-APE-FB-08 and BRA-APBCD-FB-02 were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

683387: Boron (0.0208 mg/L) was detected in field blank BRA-APE-FB-08 at a concentration greater than the RL. Therefore, the estimated boron concentration in BRA-APE-EB-09 was U qualified as not detected at the RL, and the concentrations of boron in samples BRA-BRGWC-17S and BRA-PZ-52D were J+ qualified as estimated with high bias.

683390: Boron (0.00979 mg/L) was detected at an estimated concentrations greater than the MDL and less than the RL in field blank BRA-APBCD-FB-02. Since the concentration of boron in the associated samples was greater than ten times the blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APE-EB-09	Boron	0.00556	J	0.0150	U	BFH
BRA-BRGWC-17S	Boron	0.0721	NA	0.0721	J+	BFH
BRA-PZ-52D	Boron	0.0751	NA	0.0751	J+	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APE-EB-09, BRA-APE-EB-10 and BRA-APBCD-EB-05 were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

683389: Boron (0.00556 mg/L) was detected in equipment blank BRA-APE-EB-09 at a concentration greater than the MDL and less than the RL. Since the boron concentration in the equipment blank was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.9 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively, with the following exceptions.

683387: Beryllium was not detected in sample BRA-BRGWC-35S and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

683173: Molybdenum was detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-27I and not detected in field duplicate BRA-APBCD-FD-01, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

1.10 Serial Dilution

Three sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-38S, BRA-BRGWC-17S and BRA-PZ-63I. The percent difference (%D) results were within the method specified acceptance criteria.

Batch serial dilutions were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MSs were reported using samples BRA-

BRGWC-38S and BRA-BRGWC-17S. The recovery results were within the laboratory specified acceptance criteria.

Batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported using sample BRA-BRGWC-38S and BRA-BRGWC-17S. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Four field blanks, BRA-APE-FB-07, BRA-APBCD-FB-01, BRA-APE-FB-08 and BRA-APBCD-FB-02 were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APE-EB-09, BRA-APE-EB-10 and BRA-APBCD-EB-05 were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively.

2.10 Serial Dilution

Two sample set specific serial dilutions were performed using samples BRA-BRGWC-38S and BRA-BRGWC-17S. The %D results were within the method specified acceptance criteria.

Batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
⊗ Holding Times
⊗ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
⊗ Laboratory Duplicate
⊗ Field Blank
⊗ Equipment Blank
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives with the following exception. The non-detect results of nitrate as N in samples BRA-BRGWC-45, BRA-APE-FD-05 and BRA-BRGWC-35S were R qualified as rejected due analysis outside of holding time. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for the analysis, for this data set is 98.4%.

3.1.2 Analysis Anomaly

683169, 683173, 683176, 683387, 683390, 683471 and 683475: The laboratory noted that samples BRA-BRGWC-38S, BRA-PZ-53D, BRA-PZ-13S, BRA-BRGWC-37S, BRA-APE-FD-04, BRA-BRGWC-29I, BRA-APBCD-FD-01, BRA-BRGWA-2S, BRA-BRGWA-5S, BRA-BRGWA-2I, BRA-BRGWA-5I and BRA-BRGWA-6S, BRA-BRGWC-17S, BRA-BRGWC-33S, BRA-BRGWC-35S, BRA-BRGWC-36S, BRA-PZ-52D, BRA-APE-FD-05, BRA-BRGWC-52I, BRA-BRGWC-32, BRA-BRGWC-45, BRA-APBCD-FD-02, BRA-BRGWC-25I, BRA-PZ-68D and BRA-PZ-63I were manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the nitrate-N analyses of a water sample is 48 hours from sample collection to analysis. The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding times for the TDS and total sulfide analysis of a water sample are 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met, with the following exceptions.

683387, 683475 and 683471: Nitrate-N was analyzed outside of the 48-hour holding time for samples BRA-BRGWC-35S, BRA-APE-FD-05, BRA-APE-EB-09, BRA-BRGWC-45 and BRA-PZ-63I. Therefore, the nondetect results for BRA-BRGWC-45, BRA-APE-FD-05 and BRA-BRGWC-35S were R qualified as rejected and the concentrations in samples BRA-PZ-63I and BRA-APE-EB-09 were J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-45	Nitrogen Nitrate	0.0330	HU	0.0330	R	HT2

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-09	Nitrogen Nitrate	0.298	H	0.298	J-	HT2
BRA-APE-FD-05	Nitrogen Nitrate	0.132	HU	0.132	R	HT2
BRA-BRGWC-35S	Nitrogen Nitrate	0.132	HU	0.132	R	HT2
BRA-PZ-63I	Nitrogen Nitrate	0.754	H	0.754	J-	HT2

mg/L- milligram per liter
U-not detected at or above the MDL
H-analytical holding time exceeded

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The wet chemistry parameters were not detected in the method blanks at or above the MDLs, with the following exceptions.

683173 and 683387: Chloride (0.115 mg/L and 0.116 mg/L) was detected in the method blanks in batches 2664366 and 2665219, respectively. Therefore, the estimated concentrations of chloride in BRA-APBCD-EB-04, BRA-APBCD-FB-01, BRA-APE-EB-09 and BRA-APE-EB-10 were U qualified as not detected at or above the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APBCD-EB-04	Chloride	0.118	J	0.200	U	BL1
BRA-APBCD-FB-01	Chloride	0.118	J	0.200	U	BL1
BRA-APBCD-EB-09	Chloride	0.120	J	0.200	U	BL1
BRA-APBCD-EB-10	Chloride	0.117	J	0.200	U	BL1

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.4 Matrix Spike/Matrix Spike Duplicate

Five sample set specific MSs were reported for anions, using samples BRA-BRGWA-23S, BRA-PZ-52D, BRA-PZ-70I, BRA-BRGWC-32S and BRA-PZ-68D. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

683387: The recovery of nitrate as N in the MS using sample BRA-PZ-52D was low and outside of laboratory specified acceptance criteria. Therefore, the concentration for nitrate as N in sample BRA-PZ-52DPS was J- qualified as estimated.

Four sample set specific MS/MSDs were reported for sulfide, using samples BRA-BRGWC-38S, BRA-BRGWA-2S, BRA-BRGWC-25I and BRA-PZ-63I. The recovery results were within the laboratory specified acceptance criteria, with the following exceptions.

Batch MSs and MS/MSD pairs were also reported for anions and sulfide. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-PZ-52D	Nitrate	0.343	NA	0.343	J-	MS1

mg/L- milligram per liter
NA-not applicable

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Five sample set specific laboratory duplicates were reported for anions, using samples BRA-BRGWA-23S, BRA-PZ-52D, BRA-PZ-70I, BRA-BRGWC-32S and BRA-PZ-68D. The RPD results were within the laboratory specified acceptance criteria.

Four sample set specific laboratory duplicate was reported for TDS, using samples BRA-BRGWC-38S, BRA-PZ-44, BRA-BRGWC-52I and BRA-BRGWC-25I. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

683169: The RPD of TDS for the laboratory duplicate using sample BRA-BRGWC-38S was high and outside of laboratory specified acceptance criteria. Therefore, the TDS concentration in sample BRA-BRGWC-38S was J qualified as estimated.

Batch laboratory duplicates were reported for TDS and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-38S	Total Dissolved Solids	370	NA	370	J	LD1

mg/L- milligram per liter
NA-not applicable

3.7 Field Blank

Four field blanks, BRA-APE-FB-07, BRA-APBCD-FB-01, BRA-APE-FB-08 and BRA-APBCD-FB-02 were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

683173: Chloride (0.118 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APBCD-FB-01. Since the concentration of chloride in field blank BRA-APBCD-FB-01 was U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

683387: Chloride (0.120 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-08. Since the chloride concentration in the associated samples were U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

683390: TDS (3.00 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APBCD-FB-02. Since the associated samples were detected at concentrations greater than ten times the field blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-09	Chloride	0.120	J	0.200	U	BFL
BRA-APE-EB-10	Chloride	0.117	J	0.200	U	BFL

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APE-EB-09, BRA-APE-EB-10 and BRA-APBCD-EB-05 were collected with the sample set. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

683173 and 683387: Chloride (0.118 mg/L, 0.120 mg/L and 0.117 mg/L) was detected at estimated concentrations greater than the MDL and less than the RL in equipment blanks BRA-APBCD-EB-04, BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Since the concentrations of chloride in equipment blanks BRA-APBCD-EB-04, BRA-APE-EB-09 and BRA-APE-EB-10

were U qualified as not detected at the RL due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

683173: Bicarbonate alkalinity as CaCO3 (0.900 mg/L) and total alkalinity as CaCO3 (0.900 mg/L) were detected at estimated concentrations greater than the MDL and less than the RL in equipment blank BRA-APBCD-EB-04. Since the associated samples were either nondetect or detected at concentrations greater than ten times the equipment blank concentrations of bicarbonate alkalinity as CaCO3 and total alkalinity as CaCO3, and based on technical and professional judgement, no qualifications were applied to the data.

683387: Nitrate (0.298 mg/L and 0.0376 mg/L) were detected at estimated concentrations greater than the MDL and less than the RL in equipment blanks BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Therefore, for the associated samples the concentrations greater than the equipment blank concentrations and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias. Since the nitrate concentration for sample BRA-PZ-52D was also J-qualified due to matrix spike recovery outside the limits, the final qualification for the nitrate concentration for sample BRA-PZ-52D was J qualified as estimated.

Carbonate alkalinity as CaCO3 (2.80 mg/L) and total alkalinity as CaCO3 (6.40 mg/L) were detected in BRA-APE-EB-09 at concentrations greater than the RLs. Therefore, for the associated samples the concentrations greater than the equipment blank concentrations and less than ten times the equipment blank concentrations were J+ qualified as estimated with high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-17S	Nitrogen Nitrate	0.248	NA	0.248	J+	BEL
BRA-BRGWC-34S	Nitrogen Nitrate	0.0378	J	0.100	U	BEL
BRA-BRGWC-36S	Nitrogen Nitrate	0.535	NA	0.535	J+	BEL
BRA-PZ-52D	Nitrogen Nitrate	0.343	NA	0.343	J	MS1|BEL
BRA-PZ-70I	Nitrogen Nitrate	0.113	NA	0.113	J+	BEL
BRA-APE-FD-05	Bicarbonate Alkalinity as CaCO3	51.4	NA	51.4	J+	BEH
BRA-APE-FD-05	Alkalinity Total as CaCO3	51.4	NA	51.4	J+	BEH
BRA-BRGWC-17S	Bicarbonate Alkalinity as CaCO3	62.9	NA	62.9	J+	BEH
BRA-BRGWC-17S	Alkalinity Total as CaCO3	62.9	NA	62.9	J+	BEH
BRA-BRGWC-33S	Bicarbonate Alkalinity as CaCO3	2.70	NA	2.70	J+	BEH

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Alkalinity Total as CaCO3	2.70	NA	2.70	J+	BEH
BRA-BRGWC-34S	Bicarbonate Alkalinity as CaCO3	32.8	NA	32.8	J+	BEH
BRA-BRGWC-34S	Alkalinity Total as CaCO3	32.8	NA	32.8	J+	BEH
BRA-BRGWC-35S	Bicarbonate Alkalinity as CaCO3	51.9	NA	51.9	J+	BEH
BRA-BRGWC-35S	Alkalinity Total as CaCO3	51.9	NA	51.9	J+	BEH
BRA-BRGWC-36S	Bicarbonate Alkalinity as CaCO3	20.8	NA	20.8	J+	BEH
BRA-BRGWC-36S	Alkalinity Total as CaCO3	20.8	NA	20.8	J+	BEH
BRA-PZ-70I	Bicarbonate Alkalinity as CaCO3	17.1	NA	17.1	J+	BEH
BRA-PZ-70I	Alkalinity Total as CaCO3	17.1	NA	17.1	J+	BEH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

3.9 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively, with the following exceptions.

683169: Nitrate was detected in sample BRA-PZ-13S at a concentration greater than the RL and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate BRA-APE-FD-04, resulting in a noncalculable RPD between the results, and the absolute difference between the field duplicate pair concentrations was greater than the RL. Therefore, the nitrate concentrations in the field duplicate pair were J qualified as estimated.

683173: Nitrate was not detected in field duplicate BRA-APBCD-FD-01 and detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-27I, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
BRA-APE-FD-04	Nitrogen Nitrate	0.0514	J	NC	0.0514	J	RPDF2
BRA-PZ-13S	Nitrogen Nitrate	0.260	NA		0.260	J	RPDF2

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NC-not calculable
NA-not applicable

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample duplicate
RPD - Relative percent difference

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 11, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683170

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683170001	BRA-BRGWC-38S	Ground Water	08/27/24 12:07	08/28/24 13:10
683170002	BRA-PZ-53D	Ground Water	08/27/24 14:00	08/28/24 13:10
683170003	BRA-PZ-13S	Ground Water	08/27/24 13:51	08/28/24 13:10
683170004	BRA-BRGWC-37S	Ground Water	08/27/24 16:41	08/28/24 13:10
683170005	BRA-APE-FB-07	Water	08/27/24 15:40	08/28/24 13:10
683170006	BRA-APE-FD-04	Ground Water	08/27/24 12:00	08/28/24 13:10

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

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	11-SEP-2024
EPA 903.1 Modified	10-SEP-2024
EPA 904.0/SW846 9320 Modified	10-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683170 GEL Work Order: 683170

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Hannah Bowden

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-38S
Sample ID: 683170001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.123	+/-1.52	2.81	+/-1.52	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.945	+/-1.58	2.81	+/-1.59		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.945	+/-0.408	0.453	+/-0.465	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	72.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-53D
Sample ID: 683170002
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.16	+/-1.19	1.75	+/-1.32	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.22	+/-1.28	1.75	+/-1.40		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.06	+/-0.454	0.452	+/-0.481	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	89.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-13S
Sample ID: 683170003
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.10	+/-1.37	1.78	+/-1.58	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.31	+/-1.42	1.78	+/-1.65		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.21	+/-0.388	0.283	+/-0.476	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	74.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-37S
Sample ID: 683170004
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.619	+/-1.30	2.26	+/-1.31	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.01	+/-1.41	2.26	+/-1.44		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.39	+/-0.556	0.627	+/-0.602	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	91.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-07 Project: GPCC00101
Sample ID: 683170005 Client ID: GPCC001
Matrix: WQ
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.510	+/-1.01	1.79	+/-1.01	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.838	+/-1.04	1.79	+/-1.05		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.328	+/-0.255	0.367	+/-0.266	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	83.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 11, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-04 Project: GPCC00101
Sample ID: 683170006 Client ID: GPCC001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.683	+/-1.09	2.25	+/-1.09	3.00	pCi/L			KP1	09/10/24	1158	2664487	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.62	+/-1.21	2.25	+/-1.24		pCi/L			NXL1	09/11/24	1550	2664985	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.62	+/-0.543	0.487	+/-0.607	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664487	77.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2664985

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

GEL Sample ID#	Client Sample Identification
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04

Data Summary:

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

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2664487

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

GEL Sample ID#	Client Sample Identification
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04
1205838732	Method Blank (MB)
1205838733	683170001(BRA-BRGWC-38S) Sample Duplicate (DUP)
1205838734	Laboratory Control Sample (LCS)

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

Data Summary:

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

following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205838733 (BRA-BRGWC-38SDUP)	Radium-228	RPD 226* (0.0%-100.0%) RER 2.06 (0-3)

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665880

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

GEL Sample ID#	Client Sample Identification
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04
1205841769	Method Blank (MB)
1205841770	682900001(NonSDG) Sample Duplicate (DUP)
1205841771	682900001(NonSDG) Matrix Spike (MS)
1205841772	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
The matrix spike, 1205841771 (Non SDG 682900001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the

requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

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

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683170**

Report Date: September 11, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2664487										
QC1205838733 683170001 DUP										
Radium-228	U	-0.123		1.99	pCi/L	226*		(0% - 100%)	KP1	09/10/2411:58
	Uncert:	+/-1.52		+/-1.21						
	TPU:	+/-1.52		+/-1.31						
QC1205838734 LCS										
Radium-228	70.3			61.8	pCi/L		87.9	(75%-125%)	KP1	09/10/2411:58
	Uncert:			+/-4.28						
	TPU:			+/-16.6						
QC1205838732 MB										
Radium-228			U	0.876	pCi/L				KP1	09/10/2411:58
	Uncert:			+/-1.30						
	TPU:			+/-1.32						
Rad Ra-226										
Batch 2665880										
QC1205841770 682900001 DUP										
Radium-226		1.22		1.32	pCi/L	7.74		(0% - 100%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-0.478						
	TPU:	+/-0.495		+/-0.515						
QC1205841772 LCS										
Radium-226	27.1			29.6	pCi/L		109	(75%-125%)	MJ2	09/10/2411:07
	Uncert:			+/-2.01						
	TPU:			+/-7.13						
QC1205841769 MB										
Radium-226			U	0.000	pCi/L				MJ2	09/10/2411:07
	Uncert:			+/-0.208						
	TPU:			+/-0.208						
QC1205841771 682900001 MS										
Radium-226	134	1.22		117	pCi/L		86.4	(75%-125%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-8.08						
	TPU:	+/-0.495		+/-27.4						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **683170**

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

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

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

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

683170 | 683169

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

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

Chain of Custody and Analytical Request

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

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

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

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-38S	08/27/24	1207	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-53D	08/27/24	1400	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- P2-13S	08/27/24	1351	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-37S	08/27/24	1641	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-07	08/27/24	1540	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-04	08/27/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Gill	8-28-24	0827		8/28/24	0827
2					8/28/24	1310
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

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

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

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			GWA-2I metals container has no label
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no GEL label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 11 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

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

Re: Branch CCR Groundwater Compliance
Work Order: 683174

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683174001	BRA-BRGWA-23S	Ground Water	08/27/24 12:30	08/28/24 13:10
683174002	BRA-APBCD-FB-01	Water	08/27/24 15:25	08/28/24 13:10
683174003	BRA-BRGWC-29I	Ground Water	08/27/24 15:45	08/28/24 13:10
683174004	BRA-BRGWC-27I	Ground Water	08/27/24 15:37	08/28/24 13:10
683174005	BRA-PZ-74I	Ground Water	08/27/24 12:12	08/28/24 13:10
683174006	BRA-PZ-75I	Ground Water	08/27/24 14:00	08/28/24 13:10
683174007	BRA-PZ-44	Ground Water	08/27/24 17:21	08/28/24 13:10
683174008	BRA-APBCD-FD-01	Ground Water	08/27/24 12:00	08/28/24 13:10
683174009	BRA-APBCD-EB-04	Water	08/27/24 17:45	08/28/24 13:10

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

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	12-SEP-2024
EPA 903.1 Modified	10-SEP-2024
EPA 904.0/SW846 9320 Modified	10-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683174 GEL Work Order: 683174

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Hannah Bowden

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWA-23S
Sample ID: 683174001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.435	+/-0.765	1.36	+/-0.773	3.00	pCi/L			KP1	09/10/24	0932	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.43	+/-0.914	1.36	+/-1.01		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.00	+/-0.500	0.294	+/-0.642	1.00	pCi/L			MJ2	09/10/24	1000	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-01 Project: GPCC00101
Sample ID: 683174002 Client ID: GPCC001
Matrix: WQ
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.392	+/-0.811	1.47	+/-0.817	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.622	+/-0.844	1.47	+/-0.851		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.230	+/-0.232	0.363	+/-0.237	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	76.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

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

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-29I
Sample ID: 683174003
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.835	+/-0.837	1.37	+/-0.863	3.00	pCi/L			KP1	09/10/24	0932	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.39	+/-0.975	1.37	+/-1.04		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.56	+/-0.501	0.436	+/-0.581	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-27I
Sample ID: 683174004
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.664	+/-0.802	1.35	+/-0.819	3.00	pCi/L			KP1	09/10/24	0932	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.41	+/-0.960	1.35	+/-1.03		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.75	+/-0.527	0.304	+/-0.632	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	85.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-74I
Sample ID: 683174005
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.685	+/-0.921	1.58	+/-0.938	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.997	+/-0.965	1.58	+/-0.982		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.312	+/-0.287	0.449	+/-0.291	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	77.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-75I
Sample ID: 683174006
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.10	+/-1.17	1.93	+/-1.20	3.00	pCi/L			KP1	09/10/24	0929	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.81	+/-1.29	1.93	+/-1.36		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.71	+/-0.544	0.497	+/-0.627	1.00	pCi/L			MJ2	09/10/24	1031	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	63	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-44 Project: GPCC00101
Sample ID: 683174007 Client ID: GPCC001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.44	+/-1.00	1.52	+/-1.07	3.00	pCi/L			KP1	09/10/24	0929	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.84	+/-1.10	1.52	+/-1.20		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.40	+/-0.450	0.447	+/-0.538	1.00	pCi/L			MJ2	09/10/24	1032	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	80.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-01 Project: GPCC00101
Sample ID: 683174008 Client ID: GPCC001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.798	+/-1.16	2.00	+/-1.17	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.76	+/-1.29	2.00	+/-1.34		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.96	+/-0.579	0.474	+/-0.650	1.00	pCi/L			MJ2	09/10/24	1032	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	62.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-04 Project: GPCC00101
Sample ID: 683174009 Client ID: GPCC001
Matrix: WQ
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.127	+/-0.801	1.52	+/-0.801	3.00	pCi/L			KP1	09/10/24	0929	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.487	+/-0.871	1.52	+/-0.873		pCi/L		1	NXL1	09/12/24	1026	2664986	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.360	+/-0.342	0.536	+/-0.346	1.00	pCi/L			MJ2	09/10/24	1032	2665880	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2664986

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2664488

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04
1205838735	Method Blank (MB)
1205838736	683174001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205838737	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665880

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04
1205841769	Method Blank (MB)
1205841770	682900001(NonSDG) Sample Duplicate (DUP)
1205841771	682900001(NonSDG) Matrix Spike (MS)
1205841772	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841771 (Non SDG 682900001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683174**

Report Date: September 12, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2664488										
QC1205838736 683174001 DUP										
Radium-228	U	0.435	U	0.416	pCi/L	0		N/A	KP1	09/10/2409:34
	Uncert:	+/-0.765		+/-0.841						
	TPU:	+/-0.773		+/-0.848						
QC1205838737 LCS										
Radium-228	42.1			38.5	pCi/L		91.5	(75%-125%)	KP1	09/10/2409:34
	Uncert:			+/-2.53						
	TPU:			+/-10.1						
QC1205838735 MB										
Radium-228			U	0.780	pCi/L				KP1	09/10/2409:34
	Uncert:			+/-0.723						
	TPU:			+/-0.750						
Rad Ra-226										
Batch 2665880										
QC1205841770 682900001 DUP										
Radium-226		1.22		1.32	pCi/L	7.74		(0% - 100%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-0.478						
	TPU:	+/-0.495		+/-0.515						
QC1205841772 LCS										
Radium-226	27.1			29.6	pCi/L		109	(75%-125%)	MJ2	09/10/2411:07
	Uncert:			+/-2.01						
	TPU:			+/-7.13						
QC1205841769 MB										
Radium-226			U	0.000	pCi/L				MJ2	09/10/2411:07
	Uncert:			+/-0.208						
	TPU:			+/-0.208						
QC1205841771 682900001 MS										
Radium-226	134	1.22		117	pCi/L		86.4	(75%-125%)	MJ2	09/10/2411:07
	Uncert:	+/-0.439		+/-8.08						
	TPU:	+/-0.495		+/-27.4						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683174**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683174 | 683173

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Benyford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-23S	08/27/24	1230	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FB-01	08/27/24	1525	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- BRGWC-29I	08/27/24	1545	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-27I	08/27/24	1537	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-74I	08/27/24	1212	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-75I	08/27/24	1400	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-44	08/27/24	1721	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-01	08/27/24	—	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-04	08/27/24	1745	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/28/24	0827		8/28/24	0827
2					8/28/24	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?		✓		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?		✓		GWA-2E metals container has no label
13	COC form is properly signed in relinquished/received sections?		✓		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic 1Ls in BRA-BRGWA5A kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HB Date AUG 29 2024 Page 1 of 1

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 12, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance Rchem
Work Order: 683177

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 28, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The radium sample containers for sample ID "BRA-BRGWA-2S" did not have a label or sample identifiers. he radium sample containers for sample ID "BRA-BRGWA-5I" did not have a label or sample identifiers*683177001(BRA-BRGWA-2S), 683177004(BRA-BRGWA-5I)*. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683177001	BRA-BRGWA-2S	Ground Water	08/27/24 09:45	08/28/24 08:27
683177002	BRA-BRGWA-5S	Ground Water	08/27/24 09:50	08/28/24 08:27
683177003	BRA-BRGWA-2I	Ground Water	08/27/24 10:08	08/28/24 08:27
683177004	BRA-BRGWA-5I	Ground Water	08/27/24 09:47	08/28/24 08:27
683177005	BRA-BRGWA-6S	Ground Water	08/27/24 11:35	08/28/24 08:27

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	12-SEP-2024
EPA 903.1 Modified	12-SEP-2024
EPA 904.0/SW846 9320 Modified	10-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683177 GEL Work Order: 683177

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-2S
Sample ID: 683177001
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.901	+/-0.902	1.48	+/-0.931	3.00	pCi/L			KP1	09/10/24	0933	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.40	+/-0.964	1.48	+/-0.995		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.501	+/-0.340	0.383	+/-0.351	1.00	pCi/L			MJ2	09/12/24	0906	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	86.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-5S
Sample ID: 683177002
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.371	+/-0.757	1.60	+/-0.757	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.236	+/-0.788	1.60	+/-0.790		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.236	+/-0.218	0.301	+/-0.224	1.00	pCi/L			MJ2	09/12/24	0906	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	80.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-2I
Sample ID: 683177003
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.124	+/-0.859	1.72	+/-0.859	3.00	pCi/L			KP1	09/10/24	0933	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.864	+/-0.954	1.72	+/-0.965		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.864	+/-0.415	0.414	+/-0.438	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	76.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-5I
Sample ID: 683177004
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.146	+/-1.00	2.02	+/-1.00	3.00	pCi/L			KP1	09/10/24	0934	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.62	+/-1.32	2.02	+/-1.46		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.62	+/-0.853	0.622	+/-1.06	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	67.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 12, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRchem

Client Sample ID: BRA-BRGWA-6S
Sample ID: 683177005
Matrix: WG
Collect Date: 27-AUG-24
Receive Date: 28-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.11	+/-1.02	1.64	+/-1.05	3.00	pCi/L			KP1	09/10/24	0933	2664488	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.64	+/-1.07	1.64	+/-1.12		pCi/L			NXL1	09/12/24	1112	2671139	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.539	+/-0.346	0.375	+/-0.368	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2664488	82	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2671139

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2664488

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S
1205838735	Method Blank (MB)
1205838736	683174001(BRA-BRGWA-23S) Sample Duplicate (DUP)
1205838737	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665882

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S
1205841780	Method Blank (MB)
1205841781	683177001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205841782	683177001(BRA-BRGWA-2S) Matrix Spike (MS)
1205841783	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205841780 (MB)	Radium-226	Result: 0.497 pCi/L > MDA: 0.471 pCi/L <= RDL: 1.00 pCi/L

Miscellaneous Information

Additional Comments
The matrix spike, 1205841782 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683177**

Report Date: September 12, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2664488										
QC1205838736 683174001 DUP										
Radium-228	U	0.435	U	0.416	pCi/L	0		N/A	KP1	09/10/2409:34
	Uncert:	+/-0.765		+/-0.841						
	TPU:	+/-0.773		+/-0.848						
QC1205838737 LCS										
Radium-228	42.1			38.5	pCi/L		91.5	(75%-125%)	KP1	09/10/2409:34
	Uncert:			+/-2.53						
	TPU:			+/-10.1						
QC1205838735 MB										
Radium-228			U	0.780	pCi/L				KP1	09/10/2409:34
	Uncert:			+/-0.723						
	TPU:			+/-0.750						
Rad Ra-226										
Batch 2665882										
QC1205841781 683177001 DUP										
Radium-226		0.501		0.598	pCi/L	17.6		(0% - 100%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-0.365						
	TPU:	+/-0.351		+/-0.384						
QC1205841783 LCS										
Radium-226	27.1			27.2	pCi/L		100	(75%-125%)	MJ2	09/12/2410:12
	Uncert:			+/-2.14						
	TPU:			+/-4.87						
QC1205841780 MB										
Radium-226				0.497	pCi/L				MJ2	09/12/2410:12
	Uncert:			+/-0.343						
	TPU:			+/-0.360						
QC1205841782 683177001 MS										
Radium-226	124	0.501		110	pCi/L		88.3	(75%-125%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-8.62						
	TPU:	+/-0.351		+/-22.9						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683177**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683177 | 683176

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC

gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Berisford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWA-2S	08/27/24	0945	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5S	08/27/24	0950	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-2I	08/27/24	1008	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-5I	08/27/24	0947	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWA-6S	08/27/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/28/24	0827		8/28/24	0927
2					8/29/24	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683170 683169
683173 683174
683176 683177

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 8/28/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			GWA-2E metals container has no label
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

cooler:
1- 0°c 5- 0°c
2- 0°c 6- 0°c
3- 2°c 7- 0°c
4- 2°c

BRA-BRGWA-6S metals container has no label received three plastic ILs in BRA-BRGWASA kit with no label or anything written on it.
BRA-BRGWA-2S radium container has no gel label

PM (or PMA) review: Initials HTB Date AUG 29 2024 Page 1 of 1

RE: Sample Delivery 8/28: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

Betsy McDaniel <betsy.mcdaniel@atlcc.net>

Wed 8/28/2024 10:07 AM

To:Alaina Pinnick <Alaina.Pinnick@gel.com>;Team Pinnick <Team.Pinnick@gel.com>
Cc:Joju Abraham <jabraham@southernco.com>;Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>;Midkiff, Laura B. <lbmidkif@southernco.com>;Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>;Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>;Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>;Mr. Whitney Law <wlaw@Geosyntec.com>;Joseph Ivanowski <JIvanowski@Geosyntec.com>;Chris Parker <chris.parker@atlcc.net>;Monte Jones <monte.jones@atlcc.net>;Matt Malone <matt.malone@atlcc.net>;CCollins@Geosyntec.com <ccollins@geosyntec.com>;Jordan Berisford <jordan.berisford@atlcc.net>;Taylor Goble <taylor.goble@atlcc.net>;Dever Johnson <dever.johnson@atlcc.net>; Joshua May <joshua.may@atlcc.net>

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina:

I was just notified by one of our field technicians that the bottle set for Upgradient BRA-BRGWA-5S did not have labels for the rads containers. The TDS, anions, and metals containers do have labels, and all 8 containers are packaged together in the same baggie. Those 3 rads containers are the only ones in today's delivery that do not have labels. Please notify us, if there is any confusion about matching up sample volumes with the correct IDs.
Thank you,

Betsy McDaniel
Atlantic Coast Consulting, Inc.

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Wednesday, August 28, 2024 9:01 AM
To: Betsy McDaniel <betsy.mcdaniel@atlcc.net>; Team Pinnick <Team.Pinnick@gel.com>
Cc: Joju Abraham <jabraham@southernco.com>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Mr. Whitney Law <wlaw@Geosyntec.com>; Joseph Ivanowski <JIvanowski@Geosyntec.com>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; CCollins@Geosyntec.com; Jordan Berisford <jordan.berisford@atlcc.net>; Taylor Goble <taylor.goble@atlcc.net>
Subject: Re: Sample Delivery 8/28: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

Good morning,

Thank you for sending these, we will be on the lookout for the courier.

Thank you,

Alaina Pinnick
Project Manager

2040 Savage Road, Charleston, SC 29407

Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing

From: Betsy McDaniel <betsy.mcdaniel@atlcc.net>
Sent: Wednesday, August 28, 2024 8:43 AM
To: Alaina Pinnick <Alaina.Pinnick@gel.com>; Team Pinnick <Team.Pinnick@gel.com>
Cc: Joju Abraham <jabraham@southernco.com>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Mr. Whitney Law <wlaw@Geosyntec.com>; Joseph Ivanowski <JIvanowski@Geosyntec.com>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; CCollins@Geosyntec.com <ccollins@geosyntec.com>; Jordan Berisford <jordan.berisford@atlcc.net>; Taylor Goble <taylor.goble@atlcc.net>
Subject: Sample Delivery 8/28: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina:

The first set of Plant Branch Ash Pond 2nd 2024 event samples are being delivered to your Charleston lab today (the courier picked them up this morning). Please set up separate work orders for B/C/D vs. E vs. Upgradient as per the COC pages.
I've attached the COC for your information. Note: all samples get short-hold nitrate analysis.

Betsy McDaniel
Atlantic Coast Consulting, Inc.

From: Betsy McDaniel
Sent: Tuesday, July 9, 2024 8:55 AM
To: Team Trent <team.trent@gel.com>; Erin Trent <Erin.Trent@gel.com>
Cc: Joju Abraham <jabraham@southernco.com>; Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Noelia Ruiz <NSMUSKUS@SOUTHERNCO.COM>; Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>; Mr. Whitney Law <wlaw@Geosyntec.com>; Joseph Ivanowski <JIvanowski@Geosyntec.com>; Chris Parker <chris.parker@atlcc.net>; Monte Jones <monte.jones@atlcc.net>; Matt Malone <matt.malone@atlcc.net>; CCollins@Geosyntec.com
Subject: Plant Branch Ash Ponds Bottle Kit Request (2nd 2024 Event)

Erin & Team:

The 2nd 2024 event for **Plant Branch-Ash Ponds B/C/D** and **E** is scheduled for the week of **8/26/2024**. Please find attached the bottle order spreadsheet and template COC. **Please have the coolers delivered to our new Alpharetta office by Tuesday 8/13/2024.** Southern Company has approved us getting the ASTM type I water from our 3rd party source.
Geosyntec has requested the major ions analytical for this event as well as the semi-annual scope.
We will coordinate for the samples to be delivered to your Charleston lab after collection; we're aware that the samples getting nitrate analysis will need to be delivered as soon as possible due to the 48-hour holding time. I will email you the updated field documentation and let you know when samples are underway to the lab.
Let Courtney Collins or me know, if you have any questions or concerns.

Betsy
McDaniel
Atlantic Coast Consulting, Inc.

Our Work Helps Produce a Cleaner Environment for All

11545 Wills Road, Ste 100, Alpharetta, GA 30009

770-594-5998 678-448-8459
www.atlcc.net

CONFIDENTIALITY NOTICE: This e-mail and any files transmitted with it are the property of The GEL Group, Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by The GEL Group, Inc. and its affiliates.

List of current GEL Certifications as of 12 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683389

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683389001	BRA-BRGWC-17S	Ground Water	08/28/24 12:13	08/29/24 13:10
683389002	BRA-BRGWC-33S	Ground Water	08/28/24 14:22	08/29/24 13:10
683389003	BRA-BRGWC-34S	Ground Water	08/28/24 12:43	08/29/24 13:10
683389004	BRA-BRGWC-35S	Ground Water	08/28/24 11:27	08/29/24 13:10
683389005	BRA-BRGWC-36S	Ground Water	08/28/24 10:08	08/29/24 13:10
683389006	BRA-PZ-52D	Ground Water	08/28/24 13:44	08/29/24 13:10
683389007	BRA-PZ-70I	Ground Water	08/28/24 10:06	08/29/24 13:10
683389008	BRA-APE-FD-05	Ground Water	08/28/24 12:00	08/29/24 13:10
683389009	BRA-APE-FB-08	Water	08/28/24 14:30	08/29/24 13:10
683389010	BRA-APE-EB-09	Water	08/28/24 11:00	08/29/24 13:10
683389011	BRA-APE-EB-10	Water	08/28/24 13:10	08/29/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	30-SEP-2024
EPA 903.1 Modified	26-SEP-2024
EPA 904.0/SW846 9320 Modified	26-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683389 GEL Work Order: 683389

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-17S
Sample ID: 683389001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.20	+/-1.29	2.15	+/-1.32	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.78	+/-1.36	2.15	+/-1.39		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.571	+/-0.423	0.625	+/-0.433	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-33S
Sample ID: 683389002
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.73	+/-0.927	1.29	+/-1.03	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.68	+/-1.06	1.29	+/-1.16		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.947	+/-0.508	0.649	+/-0.538	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	86	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-34S
Sample ID: 683389003
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.84	+/-1.50	2.26	+/-1.67	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.15	+/-1.54	2.26	+/-1.71		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.301	+/-0.367	0.616	+/-0.372	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-35S
Sample ID: 683389004
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.13	+/-0.921	1.46	+/-0.966	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.36	+/-0.989	1.46	+/-1.03		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.235	+/-0.360	0.633	+/-0.364	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	85.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-36S
Sample ID: 683389005
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.47	+/-0.931	1.36	+/-1.00	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.45	+/-1.06	1.36	+/-1.14		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.981	+/-0.506	0.571	+/-0.531	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-52D
Sample ID: 683389006
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.35	+/-1.57	2.11	+/-1.92	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.34	+/-1.63	2.11	+/-1.98		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.984	+/-0.445	0.507	+/-0.483	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-70I
Sample ID: 683389007
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.350	+/-1.27	2.27	+/-1.27	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.25	+/-1.34	2.27	+/-1.35		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.899	+/-0.438	0.382	+/-0.468	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	79.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FD-05 Project: GPCC00101
Sample ID: 683389008 Client ID: GPCC001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.05	+/-0.983	1.60	+/-1.02	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.24	+/-1.05	1.60	+/-1.08		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.184	+/-0.361	0.663	+/-0.362	1.00	pCi/L			MJ2	09/26/24	0819	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	80.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-FB-08 Project: GPCC00101
Sample ID: 683389009 Client ID: GPCC001
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.42	+/-1.04	1.33	+/-1.21	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.02	+/-1.09	1.33	+/-1.26		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.595	+/-0.333	0.325	+/-0.348	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	83	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-09 Project: GPCC00101
Sample ID: 683389010 Client ID: GPCC001
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.23	+/-1.57	2.35	+/-1.78	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.35	+/-1.58	2.35	+/-1.79		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.115	+/-0.198	0.366	+/-0.199	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APE-EB-10
Sample ID: 683389011
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.701	+/-1.18	2.06	+/-1.20	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.21	+/-1.24	2.06	+/-1.26		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.505	+/-0.371	0.484	+/-0.382	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	78.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670884

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683389001	BRA-BRGWC-17S
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665605

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683389001	BRA-BRGWC-17S
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10

1205841102	Method Blank (MB)
1205841103	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841104	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665908

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683389001	BRA-BRGWC-17S
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10
1205841869	Method Blank (MB)
1205841870	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841871	683389001(BRA-BRGWC-17S) Matrix Spike (MS)
1205841872	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841871 (BRA-BRGWC-17SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683389**

Report Date: September 30, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665605										
QC1205841103 683389001 DUP										
Radium-228	U	1.20		1.84	pCi/L	41.9		(0% - 100%)	KP1	09/26/2413:00
	Uncert:	+/-1.29		+/-1.20						
	TPU:	+/-1.32		+/-1.29						
QC1205841104 LCS										
Radium-228	70.1			78.4	pCi/L		112	(75%-125%)	KP1	09/26/2413:00
	Uncert:			+/-5.07						
	TPU:			+/-20.8						
QC1205841102 MB										
Radium-228			U	0.775	pCi/L				KP1	09/26/2413:00
	Uncert:			+/-0.951						
	TPU:			+/-0.971						
Rad Ra-226										
Batch 2665908										
QC1205841870 683389001 DUP										
Radium-226	U	0.571		0.789	pCi/L	32		(0% - 100%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-0.344						
	TPU:	+/-0.433		+/-0.367						
QC1205841872 LCS										
Radium-226	27.1			27.1	pCi/L		100	(75%-125%)	MJ2	09/26/2409:24
	Uncert:			+/-1.98						
	TPU:			+/-6.48						
QC1205841869 MB										
Radium-226			U	0.203	pCi/L				MJ2	09/26/2409:24
	Uncert:			+/-0.264						
	TPU:			+/-0.267						
QC1205841871 683389001 MS										
Radium-226	132 U	0.571		133	pCi/L		101	(75%-125%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-11.2						
	TPU:	+/-0.433		+/-22.3						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683389**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683387/683389

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC

gel.com Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble D. Johnson ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb. & Bicarb Alk. SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
											NI	NI		
BRA- BRGWC-175	08/28/24	1213	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-335	08/28/24	1422	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-345	08/28/24	1243	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-355	08/28/24	1127	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- BRGWC-365	08/28/24	1008	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-52D	08/28/24	1344	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- PZ-70I	08/28/24	1006	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FD-05	08/28/24	—	G	N	WG	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-FB-08	08/28/24	1430	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	
BRA- APE-EB-09	08/28/24	1100	G	N	WQ	N	N	8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-29-24	0822		8/29/24	0822
2					8/29/24	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble D. Johnson ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- APE-EB-10	08/28/24	1310	G	N	WG WQ	N	N	8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-29-24	0822		8/29/24	0822
2				Cristina Lon	8/29/24	1310
3						

TAT Requested: Normal: _x_ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683390/683391 AP

683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 8° 2 - 0° 4 - 0° 6 - 1°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with cooler
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683391

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683391001	BRA-BRGWC-30I	Ground Water	08/28/24 13:05	08/29/24 13:10
683391002	BRA-BRGWC-47	Ground Water	08/28/24 15:38	08/29/24 13:10
683391003	BRA-APBCD-FB-02	Water	08/28/24 16:30	08/29/24 13:10
683391004	BRA-BRGWC-52I	Ground Water	08/28/24 16:32	08/29/24 13:10
683391005	BRA-BRGWC-32S	Ground Water	08/28/24 16:27	08/29/24 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	30-SEP-2024
EPA 903.1 Modified	26-SEP-2024
EPA 904.0/SW846 9320 Modified	26-SEP-2024
EPA 904.0/SW846 9320 Modified	28-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683391 GEL Work Order: 683391

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024
Contact: Joju Abraham
Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-30I
Sample ID: 683391001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.07	+/-1.12	1.34	+/-1.36	3.00	pCi/L			KP1	09/26/24	1301	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.82	+/-1.18	1.34	+/-1.43		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.752	+/-0.390	0.463	+/-0.425	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-47 Project: GPCC00101
Sample ID: 683391002 Client ID: GPCC001
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.877	+/-1.48	2.55	+/-1.49	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.32	+/-1.52	2.55	+/-1.54		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.438	+/-0.370	0.539	+/-0.384	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FB-02 Project: GPCC00101
Sample ID: 683391003 Client ID: GPCC001
Matrix: WQ
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.86	+/-1.63	2.51	+/-1.79	3.00	pCi/L			KP1	09/26/24	1300	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.54	+/-1.67	2.51	+/-1.84		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.673	+/-0.359	0.413	+/-0.393	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	73.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-52I
Sample ID: 683391004
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		11.8	+/-2.55	2.72	+/-3.96	3.00	pCi/L			KP1	09/28/24	0840	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		14.7	+/-2.65	2.72	+/-4.05		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.87	+/-0.719	0.348	+/-0.837	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	68.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 30, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-32S
Sample ID: 683391005
Matrix: WG
Collect Date: 28-AUG-24
Receive Date: 29-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0875	+/-0.779	1.57	+/-0.779	3.00	pCi/L			KP1	09/26/24	1449	2665605	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.737	+/-0.878	1.57	+/-0.885		pCi/L		1	LXB3	09/30/24	0940	2670884	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.737	+/-0.404	0.442	+/-0.420	1.00	pCi/L			MJ2	09/26/24	0852	2665908	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665605	87.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670884

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665605

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S
1205841102	Method Blank (MB)
1205841103	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841104	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 683391004 (BRA-BRGWC-52I) was re-eluted and recounted to verify sample result. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665908

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S
1205841869	Method Blank (MB)
1205841870	683389001(BRA-BRGWC-17S) Sample Duplicate (DUP)
1205841871	683389001(BRA-BRGWC-17S) Matrix Spike (MS)
1205841872	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841871 (BRA-BRGWC-17SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683391**

Report Date: September 30, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665605										
QC1205841103 683389001 DUP										
Radium-228	U	1.20		1.84	pCi/L	41.9		(0% - 100%)	KP1	09/26/2413:00
	Uncert:	+/-1.29		+/-1.20						
	TPU:	+/-1.32		+/-1.29						
QC1205841104 LCS										
Radium-228	70.1			78.4	pCi/L		112	(75%-125%)	KP1	09/26/2413:00
	Uncert:			+/-5.07						
	TPU:			+/-20.8						
QC1205841102 MB										
Radium-228			U	0.775	pCi/L				KP1	09/26/2413:00
	Uncert:			+/-0.951						
	TPU:			+/-0.971						
Rad Ra-226										
Batch 2665908										
QC1205841870 683389001 DUP										
Radium-226	U	0.571		0.789	pCi/L	32		(0% - 100%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-0.344						
	TPU:	+/-0.433		+/-0.367						
QC1205841872 LCS										
Radium-226	27.1			27.1	pCi/L		100	(75%-125%)	MJ2	09/26/2409:24
	Uncert:			+/-1.98						
	TPU:			+/-6.48						
QC1205841869 MB										
Radium-226			U	0.203	pCi/L				MJ2	09/26/2409:24
	Uncert:			+/-0.264						
	TPU:			+/-0.267						
QC1205841871 683389001 MS										
Radium-226	132 U	0.571		133	pCi/L		101	(75%-125%)	MJ2	09/26/2409:24
	Uncert:	+/-0.423		+/-11.2						
	TPU:	+/-0.433		+/-22.3						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683391**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683390/683391

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Rochford ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-30I	08/28/24	1305	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-47	08/28/24	1538	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-FB-02	08/28/24	1630	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- BRGWC-52I	08/28/24	1632	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-32S	08/28/24	1627	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/29/24	0822	1	8/29/24	0822
2			2	8/29/24	1310
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ○ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683390/683391 AP

683387/683389

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler 1 - 0° 3 - 0° 5 - 8° 2 - 0° 4 - 0° 6 - 1°

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with cooler
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓		✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683474

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683474001	BRA-BRGWC-45	Ground Water	08/29/24 09:55	08/30/24 08:30
683474002	BRA-APBCD-EB-05	Water	08/29/24 10:25	08/30/24 08:30
683474003	BRA-APBCD-FD-02	Ground Water	08/29/24 12:00	08/30/24 08:30
683474004	BRA-BRGWC-25I	Ground Water	08/29/24 10:17	08/30/24 08:30
683474005	BRA-PZ-68D	Ground Water	08/29/24 09:58	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	16-SEP-2024
EPA 903.1 Modified	12-SEP-2024
EPA 904.0/SW846 9320 Modified	12-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683474 GEL Work Order: 683474

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-45
Sample ID: 683474001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.963	+/-0.939	1.53	+/-0.971	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.71	+/-1.00	1.53	+/-1.05		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.752	+/-0.355	0.303	+/-0.389	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	74	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-EB-05 Project: GPCC00101
Sample ID: 683474002 Client ID: GPCC001
Matrix: WQ
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.377	+/-0.720	1.29	+/-0.726	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.808	+/-0.786	1.29	+/-0.795		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.430	+/-0.316	0.412	+/-0.324	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	87.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-APBCD-FD-02 Project: GPCC00101
Sample ID: 683474003 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.653	+/-0.868	1.49	+/-0.883	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.95	+/-1.22	1.49	+/-1.42		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.30	+/-0.857	0.762	+/-1.12	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	78.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-BRGWC-25I
Sample ID: 683474004
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.34	+/-1.11	1.75	+/-1.16	3.00	pCi/L			KP1	09/12/24	0749	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.24	+/-1.50	1.75	+/-1.76		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.90	+/-1.01	0.621	+/-1.33	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	71.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-68D
Sample ID: 683474005
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.638	+/-0.797	1.35	+/-0.813	3.00	pCi/L			KP1	09/12/24	0736	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.43	+/-1.24	1.35	+/-1.44		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.79	+/-0.951	0.561	+/-1.19	1.00	pCi/L			MJ2	09/12/24	0939	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	90	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670865

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D
1205841081	Method Blank (MB)
1205841082	683474001(BRA-BRGWC-45) Sample Duplicate (DUP)
1205841083	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665882

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D
1205841780	Method Blank (MB)
1205841781	683177001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205841782	683177001(BRA-BRGWA-2S) Matrix Spike (MS)
1205841783	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205841780 (MB)	Radium-226	Result: 0.497 pCi/L > MDA: 0.471 pCi/L <= RDL: 1.00 pCi/L

Miscellaneous Information

Additional Comments
The matrix spike, 1205841782 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683474**

Report Date: September 16, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665594										
QC1205841082 683474001 DUP										
Radium-228	U	0.963	U	1.13	pCi/L	0		N/A	KP1	09/12/2407:38
	Uncert:	+/-0.939		+/-1.27						
	TPU:	+/-0.971		+/-1.31						
QC1205841083 LCS										
Radium-228	70.0			68.7	pCi/L		98	(75%-125%)	KP1	09/12/2407:36
	Uncert:			+/-4.24						
	TPU:			+/-18.1						
QC1205841081 MB										
Radium-228			U	1.43	pCi/L				KP1	09/12/2407:37
	Uncert:			+/-1.02						
	TPU:			+/-1.08						
Rad Ra-226										
Batch 2665882										
QC1205841781 683177001 DUP										
Radium-226		0.501		0.598	pCi/L	17.6		(0% - 100%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-0.365						
	TPU:	+/-0.351		+/-0.384						
QC1205841783 LCS										
Radium-226	27.1			27.2	pCi/L		100	(75%-125%)	MJ2	09/12/2410:12
	Uncert:			+/-2.14						
	TPU:			+/-4.87						
QC1205841780 MB										
Radium-226				0.497	pCi/L				MJ2	09/12/2410:12
	Uncert:			+/-0.343						
	TPU:			+/-0.360						
QC1205841782 683177001 MS										
Radium-226	124	0.501		110	pCi/L		88.3	(75%-125%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-8.62						
	TPU:	+/-0.351		+/-22.9						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683474**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683471
683474

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: Brian Gay 29 May | ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- BRGWC-45	08/29/24	0955	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- APBCD-EB-05	08/29/24	1075	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA- APBCD-FD-02	08/29/24	✓	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- BRGWC-25I	08/28/24	1017	G	N	WG			8	✓	✓	✓	✓	✓	
BRA- PZ-68D	08/29/24	0958	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683475 | 683477
683471 | 683474
683468 | 683479
AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 16, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance
Work Order: 683477

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. . The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683477001	BRA-PZ-63I	Ground Water	08/29/24 11:30	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	16-SEP-2024
EPA 903.1 Modified	12-SEP-2024
EPA 904.0/SW846 9320 Modified	12-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683477 GEL Work Order: 683477

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 16, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater Compliance

Client Sample ID: BRA-PZ-63I
Sample ID: 683477001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.11	+/-1.10	1.53	+/-1.22	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.48	+/-1.29	1.53	+/-1.47		pCi/L			NXL1	09/16/24	1006	2670865	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.37	+/-0.680	0.577	+/-0.807	1.00	pCi/L			MJ2	09/12/24	1012	2665882	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 683477

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2670865

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683477001	BRA-PZ-63I

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683477001	BRA-PZ-63I
1205841081	Method Blank (MB)
1205841082	683474001(BRA-BRGWC-45) Sample Duplicate (DUP)
1205841083	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665882

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683477001	BRA-PZ-63I
1205841780	Method Blank (MB)
1205841781	683177001(BRA-BRGWA-2S) Sample Duplicate (DUP)
1205841782	683177001(BRA-BRGWA-2S) Matrix Spike (MS)
1205841783	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205841780 (MB)	Radium-226	Result: 0.497 pCi/L > MDA: 0.471 pCi/L <= RDL: 1.00 pCi/L

Miscellaneous Information

Additional Comments
The matrix spike, 1205841782 (BRA-BRGWA-2SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683477**

Report Date: September 16, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665594										
QC1205841082 683474001 DUP										
Radium-228	U	0.963	U	1.13	pCi/L	0		N/A	KP1	09/12/2407:38
	Uncert:	+/-0.939		+/-1.27						
	TPU:	+/-0.971		+/-1.31						
QC1205841083 LCS										
Radium-228	70.0			68.7	pCi/L		98	(75%-125%)	KP1	09/12/2407:36
	Uncert:			+/-4.24						
	TPU:			+/-18.1						
QC1205841081 MB										
Radium-228			U	1.43	pCi/L				KP1	09/12/2407:37
	Uncert:			+/-1.02						
	TPU:			+/-1.08						
Rad Ra-226										
Batch 2665882										
QC1205841781 683177001 DUP										
Radium-226		0.501		0.598	pCi/L	17.6		(0% - 100%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-0.365						
	TPU:	+/-0.351		+/-0.384						
QC1205841783 LCS										
Radium-226	27.1			27.2	pCi/L		100	(75%-125%)	MJ2	09/12/2410:12
	Uncert:			+/-2.14						
	TPU:			+/-4.87						
QC1205841780 MB										
Radium-226				0.497	pCi/L				MJ2	09/12/2410:12
	Uncert:			+/-0.343						
	TPU:			+/-0.360						
QC1205841782 683177001 MS										
Radium-226	124	0.501		110	pCi/L		88.3	(75%-125%)	MJ2	09/12/2410:12
	Uncert:	+/-0.340		+/-8.62						
	TPU:	+/-0.351		+/-22.9						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683477**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683475
683477

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. May ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total Carb. & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)
BRA- P2-63I	08/29/24	1130	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

Collection Time-GEL WO: 683477 (BRA-PZ-63I)

Will James <Will.James@gel.com>

Tue 9/3/2024 3:24 PM

To:Joju Abraham <jabraham@southernco.com>;betsy.mcdaniel@atlcc.net <betsy.mcdaniel@atlcc.net>;Brian Steele <brian.steele@atlcc.net>;Chris Parker <chris.parker@atlcc.net>;Monte Jones <monte.jones@atlcc.net>;Lauren Fitzgerald <LAFitzgerald@Geosyntec.com>;KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>;Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>;NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>; lbmidkif@southernco.com <lbmidkif@southernco.com>;CCollins@Geosyntec.com <ccollins@geosyntec.com>;CNelson@Geosyntec.com <CNelson@Geosyntec.com>; Autumn.Acree@Geosyntec.com <Autumn.Acree@Geosyntec.com>
Cc:Team Pinnick <Team.Pinnick@gel.com>

1 attachments (538 KB)

683477-coc.pdf;

Good afternoon,

Notifying you that the sample collection times for "BRA-PZ-61I" were changed from 10:30 to 11:30 on all the containers except for the sample container designated for TDS analysis. No reply is necessary just wanted to let you know.

Please see attached for reference.

Thank you,

Will James
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417
Office Direct: 843.769.7371 Ext. 4261 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Will.James@gel.com | Website: www.gel.com
Analytical Testing

List of current GEL Certifications as of 16 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 19, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Branch CCR Groundwater Compliance RCHEM
Work Order: 683479

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 30, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The metal analysis container for sample ID 683479008(BRA-PZ-51I) did not have the I, sample ID was used from the chain of custody. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683479001	BRA-PZ-50D	Ground Water	08/29/24 10:00	08/30/24 08:30
683479002	BRA-PZ-64I	Ground Water	08/29/24 11:35	08/30/24 08:30
683479003	BRA-PZ-61I	Ground Water	08/29/24 12:05	08/30/24 08:30
683479004	BRA-BRGWC-50	Ground Water	08/29/24 13:30	08/30/24 08:30
683479005	BRA-PZ-51D	Ground Water	08/29/24 13:40	08/30/24 08:30
683479006	BRA-APBCD-FB-03	Water	08/29/24 15:00	08/30/24 08:30
683479007	BRA-APBCD-FD-03	Ground Water	08/29/24 12:00	08/30/24 08:30
683479008	BRA-PZ-51I	Ground Water	08/29/24 14:20	08/30/24 08:30
683479009	BRA-APBCD-EB-06	Water	08/29/24 14:45	08/30/24 08:30
683479010	BRA-PZ-60I	Ground Water	08/29/24 12:44	08/30/24 08:30
683479011	BRA-PZ-58I	Ground Water	08/29/24 15:15	08/30/24 08:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	19-SEP-2024
EPA 904.0/SW846 9320 Modified	12-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683479 GEL Work Order: 683479

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-50D
Sample ID: 683479001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.01	+/-1.04	1.46	+/-1.16	3.00	pCi/L			KP1	09/12/24	0749	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.49	+/-1.15	1.46	+/-1.29		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.48	+/-0.501	0.383	+/-0.552	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	89.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-64I
Sample ID: 683479002
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.38	+/-1.07	1.66	+/-1.12	3.00	pCi/L			KP1	09/12/24	0747	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.72	+/-1.11	1.66	+/-1.17		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.334	+/-0.306	0.461	+/-0.316	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham
Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-61I
Sample ID: 683479003
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.04	+/-1.13	1.64	+/-1.25	3.00	pCi/L			KP1	09/12/24	0747	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.64	+/-1.19	1.64	+/-1.30		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.596	+/-0.364	0.380	+/-0.374	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-BRGWC-50 Project: GPCC00101
Sample ID: 683479004 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.98	+/-1.15	1.70	+/-1.26	3.00	pCi/L			KP1	09/12/24	0747	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.86	+/-1.29	1.70	+/-1.43		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.88	+/-0.580	0.541	+/-0.684	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	82.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-51D
Sample ID: 683479005
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.83	+/-1.23	1.67	+/-1.43	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.43	+/-1.30	1.67	+/-1.49		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.604	+/-0.417	0.571	+/-0.431	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-APBCD-FB-03 Project: GPCC00101
Sample ID: 683479006 Client ID: GPCC001
Matrix: WQ
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.104	+/-0.860	1.69	+/-0.861	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.407	+/-0.905	1.69	+/-0.908		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.407	+/-0.281	0.354	+/-0.291	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-APBCD-FD-03 Project: GPCC00101
Sample ID: 683479007 Client ID: GPCC001
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.53	+/-1.07	1.65	+/-1.14	3.00	pCi/L			KP1	09/12/24	0736	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.27	+/-1.31	1.65	+/-1.44		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.74	+/-0.756	0.542	+/-0.883	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	83.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-51I
Sample ID: 683479008
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.46	+/-1.05	1.65	+/-1.12	3.00	pCi/L			KP1	09/12/24	0740	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.55	+/-1.19	1.65	+/-1.26		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.09	+/-0.545	0.702	+/-0.579	1.00	pCi/L			MJ2	09/19/24	1048	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	88.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-APBCD-EB-06 Project: GPCC00101
Sample ID: 683479009 Client ID: GPCC001
Matrix: WQ
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.81	+/-1.19	1.85	+/-1.27	3.00	pCi/L			KP1	09/12/24	0736	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.07	+/-1.21	1.85	+/-1.30		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.259	+/-0.239	0.330	+/-0.245	1.00	pCi/L			MJ2	09/19/24	1119	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	77.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-60I
Sample ID: 683479010
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.71	+/-1.11	1.73	+/-1.19	3.00	pCi/L			KP1	09/12/24	0738	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.70	+/-1.25	1.73	+/-1.36		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.00	+/-0.585	0.546	+/-0.660	1.00	pCi/L			MJ2	09/19/24	1119	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	85.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Branch CCR Groundwater ComplianceRCHEM

Client Sample ID: BRA-PZ-58I
Sample ID: 683479011
Matrix: WG
Collect Date: 29-AUG-24
Receive Date: 30-AUG-24
Collector: Client

Project: GPCC00101
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-1.09	1.79	+/-1.14	3.00	pCi/L			KP1	09/12/24	0739	2665594	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.34	+/-1.27	1.79	+/-1.36		pCi/L			LXB3	09/19/24	1306	2672824	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.12	+/-0.648	0.377	+/-0.755	1.00	pCi/L			MJ2	09/19/24	1119	2665896	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2665594	84.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2672824

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683479001	BRA-PZ-50D
683479002	BRA-PZ-64I
683479003	BRA-PZ-61I
683479004	BRA-BRGWC-50
683479005	BRA-PZ-51D
683479006	BRA-APBCD-FB-03
683479007	BRA-APBCD-FD-03
683479008	BRA-PZ-51I
683479009	BRA-APBCD-EB-06
683479010	BRA-PZ-60I
683479011	BRA-PZ-58I

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2665594

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683479001	BRA-PZ-50D
683479002	BRA-PZ-64I
683479003	BRA-PZ-61I
683479004	BRA-BRGWC-50
683479005	BRA-PZ-51D
683479006	BRA-APBCD-FB-03
683479007	BRA-APBCD-FD-03
683479008	BRA-PZ-51I
683479009	BRA-APBCD-EB-06
683479010	BRA-PZ-60I
683479011	BRA-PZ-58I

1205841081	Method Blank (MB)
1205841082	683474001(BRA-BRGWC-45) Sample Duplicate (DUP)
1205841083	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2665896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
683479001	BRA-PZ-50D
683479002	BRA-PZ-64I
683479003	BRA-PZ-61I
683479004	BRA-BRGWC-50
683479005	BRA-PZ-51D
683479006	BRA-APBCD-FB-03
683479007	BRA-APBCD-FD-03
683479008	BRA-PZ-51I
683479009	BRA-APBCD-EB-06
683479010	BRA-PZ-60I
683479011	BRA-PZ-58I
1205841832	Method Blank (MB)
1205841833	683097001(NonSDG) Sample Duplicate (DUP)
1205841834	683097001(NonSDG) Matrix Spike (MS)
1205841835	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205841834 (Non SDG 683097001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **683479**

Report Date: September 19, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2665594										
QC1205841082 683474001 DUP										
Radium-228	U	0.963	U	1.13	pCi/L	0		N/A	KP1	09/12/2407:38
	Uncert:	+/-0.939		+/-1.27						
	TPU:	+/-0.971		+/-1.31						
QC1205841083 LCS										
Radium-228	70.0			68.7	pCi/L		98	(75%-125%)	KP1	09/12/2407:36
	Uncert:			+/-4.24						
	TPU:			+/-18.1						
QC1205841081 MB										
Radium-228			U	1.43	pCi/L				KP1	09/12/2407:37
	Uncert:			+/-1.02						
	TPU:			+/-1.08						
Rad Ra-226										
Batch 2665896										
QC1205841833 683097001 DUP										
Radium-226		0.920		0.970	pCi/L	5.29		(0% - 100%)	MJ2	09/19/2411:19
	Uncert:	+/-0.412		+/-0.413						
	TPU:	+/-0.437		+/-0.445						
QC1205841835 LCS										
Radium-226	27.3			24.8	pCi/L		90.9	(75%-125%)	MJ2	09/19/2411:19
	Uncert:			+/-2.14						
	TPU:			+/-5.04						
QC1205841832 MB										
Radium-226			U	0.115	pCi/L				MJ2	09/19/2411:19
	Uncert:			+/-0.168						
	TPU:			+/-0.170						
QC1205841834 683097001 MS										
Radium-226	170	0.920		140	pCi/L		81.4	(75%-125%)	MJ2	09/19/2411:19
	Uncert:	+/-0.412		+/-12.4						
	TPU:	+/-0.437		+/-32.7						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **683479**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

683479
683468

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: B. Ford J. May
ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Sulfide SM 4500	<-- Preservative Type (6)
BRA-PZ-50D	08/29/24	1060	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-64I	08/29/24	1135	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-61I	08/29/24	1205	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-BRGWC50	08/29/24	1330	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51D	08/29/24	1340	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-FB-03	08/29/24	1500	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-APBCD-FD-03	08/29/24	✓	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-PZ-51I	08/29/24	1420	G	N	WG			8	✓	✓	✓	✓	✓	
BRA-APBCD-EB-06	08/29/24	1425	G	N	WQ			8	✓	✓	✓	✓	✓	
BRA-PZ-60I	08/29/24	1244	G	N	WG			8	✓	✓	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		08-30-24	0830		8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - BCD | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: JBrooks 2/14/24 | ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS, NO3 EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	Sulfide SM 4500	<-- Preservative Type (6)	Comments
BRA- P2-58I	08/29/24	1515	G	N	WG			8	✓	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2024S2
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															
BRA-															

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08-30-24	0830	[signature]	8/30/24	830
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

683468

683475 | 683477
683471 | 683474
683468 | 683479

AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/30/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1° for all 7 coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: BRA-PZ-51 I (Analysis Metals) forgot the "I" at the end
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) BRA-PZ-68D (Analysis TDS) doesn't have a time
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

9.) of the ID. (683479)

10.) wrote on the sample. BRA-PZ-63I all times on samples are changed from 10:30 to 11:30 except for analysis TDS. (683477)

PM (or PMA) review: Initials KM Date 9/3/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 19 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	31 January 2025
To:	Lauren Fitzgerald
From:	Kristoffer Henderson
CC:	Ashley Wilson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 683170, 683174, 683177, 683389, 683391, 683474 and 683477**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty groundwater samples including four equipment blanks, four field blanks and four field duplicate samples collected 27-29 August 2024, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
683170001	BRA-BRGWC-38S
683170002	BRA-PZ-53D
683170003	BRA-PZ-13S
683170004	BRA-BRGWC-37S
683170005	BRA-APE-FB-07
683170006	BRA-APE-FD-04
683174001	BRA-BRGWA-23S
683174002	BRA-APBCD-FB-01
683174003	BRA-BRGWC-29I
683174004	BRA-BRGWC-27I
683174005	BRA-PZ-74I
683174006	BRA-PZ-75I
683174007	BRA-PZ-44
683174008	BRA-APBCD-FD-01
683174009	BRA-APBCD-EB-04
683177001	BRA-BRGWA-2S
683177002	BRA-BRGWA-5S
683177003	BRA-BRGWA-2I
683177004	BRA-BRGWA-5I
683177005	BRA-BRGWA-6S
683389001	BRA-BRGWC-17S

Laboratory IDs	Client IDs
683389002	BRA-BRGWC-33S
683389003	BRA-BRGWC-34S
683389004	BRA-BRGWC-35S
683389005	BRA-BRGWC-36S
683389006	BRA-PZ-52D
683389007	BRA-PZ-70I
683389008	BRA-APE-FD-05
683389009	BRA-APE-FB-08
683389010	BRA-APE-EB-09
683389011	BRA-APE-EB-10
683391001	BRA-BRGWC-30I
683391002	BRA-BRGWC-47
683391003	BRA-APBCD-FB-02
683391004	BRA-BRGWC-52I
683391005	BRA-BRGWC-32S
683474001	BRA-BRGWC-45
683474002	BRA-APBCD-EB-05
683474003	BRA-APBCD-FD-02
683474004	BRA-BRGWC-25I
683474005	BRA-PZ-68D
683477001	BRA-PZ-63I

The samples were received at 0.0, 2.0 and 1.0 degrees Celsius (°C), both within and outside of the EPA Region 4 criteria of 4°C $\pm$ 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

683177: The laboratory noted that the radium container for sample BRA-BRGWA-2S was missing the label.

683170, 683174 and 683177: The laboratory noted three 1L containers were received without labels.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by modified US EPA method 903.1, modified radium-228 by US EPA methods 904.0/9320 modified and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The radiochemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

683170, 683177, 683389, 683391 and 683474: Total radium was reported at the minimum detectable concentration (MDC) for radium-226 and radium-228. However, radium-226 was detected in the following samples greater than the MDC, BRA-APE-FD-04, BRA-BRGWC-37S, BRA-BRGWC-38S, BRA-BRGWA-2I, BRA-BRGWA-2S, BRA-APE-EB-10, BRA-PZ-70I and BRA-BRGWC-32S. Since total radium is calculated from radium-226 and radium-228, and

radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-APE-FD-04	Combined Radium 226 + 228	1.62	U	1.62	NA	RO1
BRA-BRGWC-37S	Combined Radium 226 + 228	2.01	U	2.01	NA	RO1
BRA-BRGWC-38S	Combined Radium 226 + 228	0.945	U	0.945	NA	RO1
BRA-BRGWA-2I	Combined Radium 226 + 228	0.864	U	0.864	NA	RO1
BRA-BRGWA-2S	Combined Radium 226 + 228	1.40	U	1.40	NA	RO1
BRA-APE-EB-10	Combined Radium 226 + 228	1.21	U	1.21	NA	RO1
BRA-PZ-70I	Combined Radium 226 + 228	1.25	U	1.25	NA	RO1
BRA-BRGWC-32S	Combined Radium 226 + 228	0.737	U	0.737	NA	RO1
BRA-APBCD-EB-05	Combined Radium 226 + 228	0.808	U	0.808	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Radium-226 and radium-228 were not detected in the method blanks at or above the MDCs, with the following exceptions.

683177, 683474 and 683477: Radium-226 (0.497 pCi/L) was detected in the method blank in batch 2665882 at a concentration greater than the MDC.

Since the mean differences were less than 2 between the blank, and the sample concentrations were less than ten times the blank concentration, the radium-226 the combined radium 226 + 228 results for samples BRA-BRGWA-2I, BRA-BRGWA-2S, BRA-BRGWA-6S, BRA-APBCD-EB-05 and BRA-BRGWC-45 were UJ qualified as not statistically distinguishable from the blank.

Since the mean differences were greater than 3 between the blank, and the sample concentrations were less than ten times the blank concentration, the radium-226 the combined radium 226 + 228 results for samples BRA-BRGWA-5I, BRA-APBCD-FD-02, BRA-BRGWC-25I, BRA-PZ-68D and BRA-PZ-63I were J qualified as estimated.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-BRGWA-2I	Radium-226	0.864	NA	0.864	UJ	BL2
BRA-BRGWA-2I	Combined Radium 226 + 228	0.864	U	0.864	UJ	BL2
BRA-BRGWA-2S	Radium-226	0.501	NA	0.501	UJ	BL2
BRA-BRGWA-2S	Combined Radium 226 + 228	1.40	U	1.40	UJ	BL2
BRA-BRGWA-5I	Radium-226	3.62	NA	3.62	J	BL2
BRA-BRGWA-5I	Combined Radium 226 + 228	3.62	NA	3.62	J	BL2
BRA-BRGWA-6S	Radium-226	0.539	NA	0.539	UJ	BL2
BRA-BRGWA-6S	Combined Radium 226 + 228	1.64	NA	1.64	UJ	BL2
BRA-APBCD-EB-05	Radium-226	0.43	NA	0.43	UJ	BL2
BRA-APBCD-EB-05	Combined Radium 226 + 228	0.808	U	0.808	UJ	BL2
BRA-APBCD-FD-02	Radium-226	3.30	NA	3.30	J	BL2
BRA-APBCD-FD-02	Combined Radium 226 + 228	3.95	NA	3.95	J	BL2
BRA-BRGWC-25I	Radium-226	4.90	NA	4.90	J	BL2
BRA-BRGWC-25I	Combined Radium 226 + 228	6.24	NA	6.24	J	BL2
BRA-BRGWC-45	Radium-226	0.752	NA	0.752	UJ	BL2
BRA-BRGWC-45	Combined Radium 226 + 228	1.71	NA	1.71	UJ	BL2
BRA-PZ-68D	Radium-226	4.79	NA	4.79	J	BL2
BRA-PZ-68D	Combined Radium 226 + 228	5.43	NA	5.43	J	BL2
BRA-PZ-63I	Radium-226	2.37	NA	2.37	J	BL2
BRA-PZ-63I	Combined Radium 226 + 228	4.48	NA	4.48	J	BL2

pCi/L-picocuries per liter
NA-not applicable

1.4 Matrix Spike (MS)

Two sample set specific MSs were reported for radium-226 using samples BRA-BRGWA-2S and BRA-BRGWC-17S. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for radium-226 using sample BRA-BRGWC-17S and four sample set specific laboratory duplicates were reported for radium-228 using samples BRA-BRGWC-38S, BRA-BRGWA-23S, BRA-BRGWC-17S and BRA-BRGWC-45. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Tracers were reported for radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Five field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APBCD-FB-03, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks at or above the MDCs, with the following exceptions.

683389: Radium-226 (0.595 pCi/L), radium-228 (2.42 pCi/L) and combined radium 226 and 228 (3.02 pCi/L) were detected in the BRA-APE-FB-0, at concentrations greater than the MDC. The associated samples were qualified as follows:

683391: Radium-226 (0.673 pCi/L), radium-228 (2.86 pCi/L) and combined radium 226 and 228 (3.54 pCi/L) were detected in the BRA-APE-FB-08 and BRA-APBCD-FB-02, respectively, at concentrations greater than the MDC. The associated samples were qualified as follows:

If the mean difference was less than 2 between the blank, and the sample concentration was less than ten times the blank concentration, the results for samples were UJ qualified as not statistically distinguishable from the blank.

If the mean difference was greater than 3 between the blank, and the sample concentration was less than ten times the blank concentration, the results for samples were J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-10	Radium-226	0.505	NA	0.505	UJ	BFH
BRA-BRGWC-33S	Radium-226	0.947	NA	0.947	UJ	BFH
BRA-BRGWC-36S	Radium-226	0.981	NA	0.981	UJ	BFH
BRA-PZ-52D	Radium-226	0.984	NA	0.984	UJ	BFH
BRA-PZ-70I	Radium-226	0.899	NA	0.899	UJ	BFH
BRA-APE-EB-09	Radium-228	3.23	NA	3.23	UJ	BFH
BRA-BRGWC-33S	Radium-228	1.73	NA	1.73	UJ	BFH
BRA-BRGWC-34S	Radium-228	2.84	NA	2.84	UJ	BFH
BRA-BRGWC-36S	Radium-228	1.47	NA	1.47	UJ	BFH
BRA-PZ-52D	Radium-228	4.35	NA	4.35	UJ	BFH
BRA-APE-EB-09	Combined Radium 226 + 228	3.35	NA	3.35	UJ	BFH

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Combined Radium 226 + 228	2.68	NA	2.68	UJ	BFH
BRA-BRGWC-34S	Combined Radium 226 + 228	3.15	NA	3.15	UJ	BFH
BRA-BRGWC-36S	Combined Radium 226 + 228	2.45	NA	2.45	UJ	BFH
BRA-PZ-52D	Combined Radium 226 + 228	5.34	NA	5.34	UJ	BFH
BRA-BRGWC-30I	Radium-226	0.752	NA	0.752	UJ	BFH
BRA-BRGWC-32S	Radium-226	0.737	NA	0.737	UJ	BFH
BRA-BRGWC-52I	Radium-226	2.87	NA	2.87	J	BFH
BRA-BRGWC-30I	Radium-228	3.07	NA	3.07	UJ	BFH
BRA-BRGWC-52I	Radium-228	11.8	NA	11.8	J	BFH
BRA-BRGWC-30I	Combined Radium 226 + 228	3.82	NA	3.82	UJ	BFH
BRA-BRGWC-32S	Combined Radium 226 + 228	0.737	U	0.737	UJ	BFH
BRA-BRGWC-52I	Combined Radium 226 + 228	14.7	NA	14.7	J	BFH

pCi/L-picocuries per liter
NA-not applicable

1.9 Equipment Blank

Five equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05 and BRA-APBCD-EB-06 BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blanks at or above the MDCs, with the following exceptions.

683389: Radium-228 (3.23 pCi/L) and combined radium 226 + 228 (3.35 pCi/L) were detected in the BRA-APE-EB-09 at concentrations greater than the MDC. Radium-226 (0.505 pCi/L) was detected in the BRA-APE-EB-10 at concentrations greater than the MDC. Since radium-226, radium-228 and combined radium 226 + 228 were UJ qualified due to field blank contamination, no additional qualifications were applied to the data.

683474: Radium-226 (0.430 pCi/L) was detected in BRA-APBCD-EB-05 at a concentration greater than the MDC. Since radium-226 was UJ qualified due to method blank contamination, no additional qualifications were applied to the data.

1.10 Field Duplicate

Four duplicate samples, BRA-APE-FD-04, BRA-APBCD-FD-01, BRA-APE-FD-05 and BRA-APBCD-FD-02 were collected with the sample set. Acceptable precision [RER (1σ) < 3] was demonstrated between the field duplicates and the original samples, BRA-PZ-13S, BRA-BRGWC-27I, BRA-BRGWC-35S and BRA-BRGWC-25I, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

Low-Flow Test Report:

Test Date / Time: 8/28/2024 11:38:27 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-17S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 5.22 ft** **Total Depth: 10.22 ft** **Initial Depth to Water: 5.91 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 7.5 ft** **Estimated Total Volume Pumped: 8.4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.57 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1213. Cloudy 90 degrees. Fe2+ 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 11:38 AM	00:00	6.43 pH	24.75 °C	452.31 µS/cm	1.65 mg/L	3.84 NTU	115.9 mV	6.35 ft	240.00 ml/min
8/28/2024 11:43 AM	05:00	6.47 pH	22.66 °C	475.00 µS/cm	1.40 mg/L	2.37 NTU	109.5 mV	6.42 ft	240.00 ml/min
8/28/2024 11:48 AM	10:00	6.48 pH	22.39 °C	473.72 µS/cm	1.33 mg/L	2.05 NTU	108.4 mV	6.46 ft	240.00 ml/min
8/28/2024 11:53 AM	15:00	6.48 pH	22.51 °C	474.87 µS/cm	1.29 mg/L	1.63 NTU	107.3 mV	6.48 ft	240.00 ml/min
8/28/2024 11:58 AM	20:00	6.49 pH	22.48 °C	472.22 µS/cm	1.26 mg/L	1.15 NTU	107.1 mV	6.48 ft	240.00 ml/min
8/28/2024 12:03 PM	25:00	6.49 pH	22.75 °C	472.85 µS/cm	1.26 mg/L	0.78 NTU	107.0 mV	6.48 ft	240.00 ml/min
8/28/2024 12:08 PM	30:00	6.49 pH	22.72 °C	472.43 µS/cm	1.27 mg/L	0.40 NTU	107.0 mV	6.48 ft	240.00 ml/min
8/28/2024 12:13 PM	35:00	6.49 pH	22.43 °C	471.24 µS/cm	1.27 mg/L	0.38 NTU	107.5 mV	6.48 ft	240.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/28/2024 1:27:19 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-33S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18 ft** **Total Depth: 28.88 ft** **Initial Depth to Water: 15.88 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 16.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1.92 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1422. Sunny, 94 degrees F.
Fe2+= 0.0mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 1:27 PM	00:00	5.69 pH	26.28 °C	1,748.4 µS/cm	1.77 mg/L	0.79 NTU	95.1 mV	15.88 ft	300.00 ml/min
8/28/2024 1:32 PM	05:00	4.53 pH	23.03 °C	2,011.5 µS/cm	0.78 mg/L	0.26 NTU	290.1 mV	15.96 ft	300.00 ml/min
8/28/2024 1:37 PM	10:00	4.52 pH	22.79 °C	1,991.2 µS/cm	0.67 mg/L	0.24 NTU	257.9 mV	16.03 ft	300.00 ml/min
8/28/2024 1:42 PM	15:00	4.52 pH	23.11 °C	2,005.3 µS/cm	0.80 mg/L	0.22 NTU	277.3 mV	16.04 ft	300.00 ml/min
8/28/2024 1:47 PM	20:00	4.52 pH	23.43 °C	2,018.5 µS/cm	0.80 mg/L	0.24 NTU	286.9 mV	16.04 ft	300.00 ml/min
8/28/2024 1:52 PM	25:00	4.49 pH	23.25 °C	2,001.0 µS/cm	0.70 mg/L	0.24 NTU	316.3 mV	16.04 ft	300.00 ml/min
8/28/2024 1:57 PM	30:00	4.49 pH	22.67 °C	2,016.6 µS/cm	0.87 mg/L	0.23 NTU	332.6 mV	16.04 ft	300.00 ml/min
8/28/2024 2:02 PM	35:00	4.51 pH	22.54 °C	2,021.4 µS/cm	1.42 mg/L	0.22 NTU	333.8 mV	16.04 ft	300.00 ml/min
8/28/2024 2:07 PM	40:00	4.50 pH	22.20 °C	2,006.9 µS/cm	0.87 mg/L	0.23 NTU	337.0 mV	16.04 ft	300.00 ml/min
8/28/2024 2:12 PM	45:00	4.51 pH	22.63 °C	2,037.6 µS/cm	0.94 mg/L	0.22 NTU	340.2 mV	16.04 ft	300.00 ml/min
8/28/2024 2:17 PM	50:00	4.51 pH	23.12 °C	2,025.1 µS/cm	1.09 mg/L	0.23 NTU	342.3 mV	16.04 ft	300.00 ml/min
8/28/2024 2:22 PM	55:00	4.51 pH	23.27 °C	2,001.4 µS/cm	1.06 mg/L	0.22 NTU	344.5 mV	16.04 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/28/2024 12:18:04 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-34S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15 ft** **Total Depth: 25.76 ft** **Initial Depth to Water: 4.39 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2.88 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1243. Sunny, 90 degrees F.
Fe2+= 0.0mg/L.
BRA-APE-EB-10 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 12:18 PM	00:00	6.23 pH	26.56 °C	612.53 µS/cm	3.28 mg/L	0.35 NTU	7.8 mV	4.39 ft	300.00 ml/min
8/28/2024 12:23 PM	05:00	6.21 pH	23.62 °C	676.75 µS/cm	0.54 mg/L	0.21 NTU	59.6 mV	4.61 ft	300.00 ml/min
8/28/2024 12:28 PM	10:00	6.20 pH	23.43 °C	681.20 µS/cm	0.16 mg/L	0.22 NTU	51.8 mV	4.63 ft	300.00 ml/min
8/28/2024 12:33 PM	15:00	6.18 pH	23.25 °C	676.18 µS/cm	0.12 mg/L	0.21 NTU	51.4 mV	4.63 ft	300.00 ml/min
8/28/2024 12:38 PM	20:00	6.20 pH	23.17 °C	675.04 µS/cm	0.11 mg/L	0.20 NTU	49.9 mV	4.63 ft	300.00 ml/min
8/28/2024 12:43 PM	25:00	6.21 pH	23.12 °C	667.00 µS/cm	0.11 mg/L	0.19 NTU	48.9 mV	4.63 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 10:57:13 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-35S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30.01 ft** **Initial Depth to Water: 0.91 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1.32 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1127. Sunny, 87 degrees F.
Fe2+= 0.0mg/L.
BRA-APE-FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 10:57 AM	00:00	5.83 pH	24.34 °C	533.11 µS/cm	3.58 mg/L	1.17 NTU	0.1 mV	0.91 ft	300.00 ml/min
8/28/2024 11:02 AM	05:00	5.81 pH	21.45 °C	540.92 µS/cm	0.35 mg/L	0.94 NTU	72.7 mV	1.01 ft	300.00 ml/min
8/28/2024 11:07 AM	10:00	5.83 pH	21.22 °C	543.52 µS/cm	0.20 mg/L	0.26 NTU	67.3 mV	1.02 ft	300.00 ml/min
8/28/2024 11:12 AM	15:00	5.84 pH	21.25 °C	542.87 µS/cm	0.17 mg/L	0.20 NTU	66.6 mV	1.02 ft	300.00 ml/min
8/28/2024 11:17 AM	20:00	5.86 pH	21.16 °C	544.61 µS/cm	0.16 mg/L	0.25 NTU	64.3 mV	1.02 ft	300.00 ml/min
8/28/2024 11:22 AM	25:00	5.87 pH	21.15 °C	545.81 µS/cm	0.16 mg/L	0.24 NTU	61.9 mV	1.02 ft	300.00 ml/min
8/28/2024 11:27 AM	30:00	5.87 pH	21.04 °C	547.75 µS/cm	0.17 mg/L	0.21 NTU	59.7 mV	1.02 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/28/2024 9:38:36 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-36S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25.44 ft** **Total Depth: 35.44 ft** **Initial Depth to Water: 6.26 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1008. Clear 83 degrees. Fe2+ 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 9:38 AM	00:00	7.32 pH	22.53 °C	468.61 µS/cm	2.06 mg/L	4.78 NTU	125.7 mV	6.44 ft	300.00 ml/min
8/28/2024 9:43 AM	05:00	6.56 pH	21.54 °C	452.12 µS/cm	1.90 mg/L	3.45 NTU	118.2 mV	6.48 ft	300.00 ml/min
8/28/2024 9:48 AM	10:00	6.12 pH	21.25 °C	442.23 µS/cm	1.99 mg/L	2.31 NTU	116.1 mV	6.48 ft	300.00 ml/min
8/28/2024 9:53 AM	15:00	5.92 pH	21.37 °C	440.22 µS/cm	1.98 mg/L	1.77 NTU	116.0 mV	6.48 ft	300.00 ml/min
8/28/2024 9:58 AM	20:00	5.85 pH	21.12 °C	434.94 µS/cm	2.00 mg/L	1.20 NTU	116.7 mV	6.48 ft	300.00 ml/min
8/28/2024 10:03 AM	25:00	5.80 pH	21.02 °C	433.64 µS/cm	2.00 mg/L	1.22 NTU	117.4 mV	6.48 ft	300.00 ml/min
8/28/2024 10:08 AM	30:00	5.80 pH	21.21 °C	435.09 µS/cm	2.00 mg/L	1.17 NTU	117.2 mV	6.48 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 4:06:07 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-37S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56 ft** **Total Depth: 66.24 ft** **Initial Depth to Water: 55.55 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 5.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 4.32 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1641. Sunny, 94 degrees F.
Fe2+=0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 4:06 PM	00:00	7.61 pH	33.23 °C	52.63 µS/cm	6.63 mg/L	1.17 NTU	48.2 mV	55.55 ft	160.00 ml/min
8/27/2024 4:11 PM	05:00	6.82 pH	27.20 °C	45.50 µS/cm	7.57 mg/L	0.60 NTU	78.3 mV	55.84 ft	160.00 ml/min
8/27/2024 4:16 PM	10:00	6.31 pH	26.47 °C	46.14 µS/cm	7.16 mg/L	0.16 NTU	109.3 mV	55.88 ft	160.00 ml/min
8/27/2024 4:21 PM	15:00	5.95 pH	25.78 °C	45.92 µS/cm	6.99 mg/L	0.11 NTU	86.5 mV	55.89 ft	160.00 ml/min
8/27/2024 4:26 PM	20:00	5.88 pH	25.42 °C	45.88 µS/cm	6.99 mg/L	0.12 NTU	111.1 mV	55.91 ft	160.00 ml/min
8/27/2024 4:31 PM	25:00	5.84 pH	25.12 °C	45.72 µS/cm	6.99 mg/L	0.11 NTU	84.6 mV	55.91 ft	160.00 ml/min
8/27/2024 4:36 PM	30:00	5.82 pH	26.00 °C	45.94 µS/cm	6.98 mg/L	0.11 NTU	111.0 mV	55.91 ft	160.00 ml/min
8/27/2024 4:41 PM	35:00	5.82 pH	27.18 °C	45.59 µS/cm	6.88 mg/L	0.10 NTU	86.1 mV	55.91 ft	160.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 11:37:37 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-38S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30 ft** **Total Depth: 40.64 ft** **Initial Depth to Water: 25.45 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 9.96 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1207. Sunny, 88 degrees F.
Fe2+=0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 11:37 AM	00:00	4.98 pH	21.69 °C	465.67 µS/cm	1.68 mg/L	0.23 NTU	169.6 mV	25.45 ft	150.00 ml/min
8/27/2024 11:42 AM	05:00	4.97 pH	21.86 °C	467.60 µS/cm	1.63 mg/L	0.21 NTU	27.5 mV	25.78 ft	150.00 ml/min
8/27/2024 11:47 AM	10:00	4.99 pH	22.14 °C	469.23 µS/cm	1.60 mg/L	0.17 NTU	23.8 mV	26.14 ft	150.00 ml/min
8/27/2024 11:52 AM	15:00	4.99 pH	22.55 °C	470.01 µS/cm	1.59 mg/L	0.16 NTU	30.9 mV	26.26 ft	150.00 ml/min
8/27/2024 11:57 AM	20:00	4.98 pH	22.61 °C	472.93 µS/cm	1.58 mg/L	0.15 NTU	37.7 mV	26.27 ft	150.00 ml/min
8/27/2024 12:02 PM	25:00	4.95 pH	23.09 °C	473.15 µS/cm	1.56 mg/L	0.16 NTU	44.1 mV	26.28 ft	150.00 ml/min
8/27/2024 12:07 PM	30:00	4.96 pH	23.08 °C	473.91 µS/cm	1.54 mg/L	0.15 NTU	48.2 mV	26.28 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 12:51:33 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-13S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.17 ft** **Total Depth: 38.17 ft** **Initial Depth to Water: 31.11 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1351. Cloudy 91 degrees. Fe2+ 0.0 mg/L. APE-FD-04 taken here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 12:51 PM	00:00	5.22 pH	25.89 °C	160.32 µS/cm	7.28 mg/L	0.52 NTU	147.7 mV	31.26 ft	300.00 ml/min
8/27/2024 12:56 PM	05:00	5.59 pH	18.99 °C	151.78 µS/cm	5.33 mg/L	0.95 NTU	131.0 mV	31.28 ft	300.00 ml/min
8/27/2024 1:01 PM	10:00	5.59 pH	18.59 °C	153.67 µS/cm	5.03 mg/L	1.54 NTU	129.2 mV	31.31 ft	300.00 ml/min
8/27/2024 1:06 PM	15:00	5.59 pH	18.58 °C	151.34 µS/cm	5.13 mg/L	1.71 NTU	129.2 mV	31.31 ft	300.00 ml/min
8/27/2024 1:11 PM	20:00	5.60 pH	18.65 °C	114.91 µS/cm	5.26 mg/L	1.61 NTU	128.9 mV	31.31 ft	300.00 ml/min
8/27/2024 1:16 PM	25:00	5.64 pH	18.66 °C	153.75 µS/cm	5.13 mg/L	1.45 NTU	127.5 mV	31.31 ft	300.00 ml/min
8/27/2024 1:21 PM	30:00	5.61 pH	18.66 °C	153.93 µS/cm	5.15 mg/L	1.68 NTU	129.6 mV	31.31 ft	300.00 ml/min
8/27/2024 1:26 PM	35:00	5.62 pH	18.70 °C	145.17 µS/cm	5.13 mg/L	1.62 NTU	128.7 mV	31.31 ft	300.00 ml/min
8/27/2024 1:31 PM	40:00	5.66 pH	18.80 °C	154.10 µS/cm	5.06 mg/L	1.44 NTU	127.7 mV	31.31 ft	300.00 ml/min
8/27/2024 1:36 PM	45:00	5.65 pH	18.82 °C	155.01 µS/cm	5.14 mg/L	1.62 NTU	128.2 mV	31.31 ft	300.00 ml/min
8/27/2024 1:41 PM	50:00	5.63 pH	18.95 °C	163.05 µS/cm	4.98 mg/L	1.25 NTU	129.6 mV	31.31 ft	300.00 ml/min
8/27/2024 1:46 PM	55:00	5.64 pH	18.96 °C	157.70 µS/cm	5.07 mg/L	1.21 NTU	129.4 mV	31.31 ft	300.00 ml/min
8/27/2024 1:51 PM	01:00:00	5.67 pH	18.80 °C	155.79 µS/cm	5.06 mg/L	1.36 NTU	128.5 mV	31.31 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 3:52:44 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.23 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 25.24 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 21.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 31.83 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Well purged dry

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 3:52 PM	00:00	6.71 pH	27.48 °C	364.39 µS/cm	4.73 mg/L	3.12 NTU	134.2 mV	25.88 ft	100.00 ml/min
8/27/2024 3:57 PM	05:00	7.09 pH	23.61 °C	370.76 µS/cm	4.05 mg/L	2.90 NTU	133.1 mV	26.47 ft	100.00 ml/min
8/27/2024 4:02 PM	10:00	7.29 pH	23.18 °C	369.89 µS/cm	4.26 mg/L	2.79 NTU	132.6 mV	27.13 ft	100.00 ml/min
8/27/2024 4:07 PM	15:00	7.40 pH	24.45 °C	369.75 µS/cm	4.49 mg/L	2.39 NTU	131.2 mV	27.85 ft	100.00 ml/min
8/27/2024 4:12 PM	20:00	7.52 pH	22.60 °C	365.96 µS/cm	4.96 mg/L	2.28 NTU	132.7 mV	29.55 ft	300.00 ml/min
8/27/2024 4:17 PM	25:00	7.59 pH	22.55 °C	366.04 µS/cm	4.85 mg/L	1.72 NTU	132.3 mV	31.38 ft	300.00 ml/min
8/27/2024 4:22 PM	30:00	7.63 pH	22.35 °C	364.39 µS/cm	4.83 mg/L	1.25 NTU	132.1 mV	33.40 ft	300.00 ml/min
8/27/2024 4:27 PM	35:00	7.66 pH	22.11 °C	364.54 µS/cm	4.85 mg/L	0.97 NTU	132.0 mV	35.36 ft	300.00 ml/min
8/27/2024 4:32 PM	40:00	7.70 pH	21.68 °C	365.26 µS/cm	4.94 mg/L	1.04 NTU	132.0 mV	37.27 ft	300.00 ml/min
8/27/2024 4:37 PM	45:00	7.71 pH	21.55 °C	371.25 µS/cm	5.06 mg/L	0.84 NTU	132.1 mV	39.42 ft	300.00 ml/min
8/27/2024 4:42 PM	50:00	7.72 pH	22.23 °C	363.90 µS/cm	4.97 mg/L	0.92 NTU	131.9 mV	41.50 ft	300.00 ml/min
8/27/2024 4:47 PM	55:00	7.73 pH	22.31 °C	362.99 µS/cm	5.01 mg/L	0.96 NTU	131.8 mV	43.68 ft	300.00 ml/min
8/27/2024 4:52 PM	01:00:00	7.74 pH	22.26 °C	360.91 µS/cm	5.00 mg/L	0.88 NTU	132.3 mV	45.91 ft	300.00 ml/min
8/27/2024 4:57 PM	01:05:00	7.75 pH	21.82 °C	367.57 µS/cm	5.09 mg/L	1.11 NTU	131.7 mV	48.16 ft	300.00 ml/min

8/27/2024 5:02 PM	01:10:00	7.77 pH	21.73 °C	367.36 µS/cm	5.15 mg/L	0.97 NTU	131.8 mV	50.45 ft	300.00 ml/min
8/27/2024 5:07 PM	01:15:00	7.78 pH	21.67 °C	365.77 µS/cm	5.15 mg/L	0.76 NTU	131.9 mV	52.77 ft	300.00 ml/min
8/27/2024 5:12 PM	01:20:00	7.78 pH	21.66 °C	370.13 µS/cm	5.22 mg/L	0.85 NTU	132.3 mV	54.92 ft	300.00 ml/min
8/27/2024 5:17 PM	01:25:00	7.79 pH	21.68 °C	366.19 µS/cm	5.17 mg/L	0.93 NTU	131.9 mV	57.07 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 1:29:17 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.23 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 51.7 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 0.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 1.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1344. Cloudy 94 degrees. Fe2+ 0.0 mg/L. APE-FB-08 poured here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 1:29 PM	00:00	7.20 pH	31.69 °C	0.19 µS/cm	7.10 mg/L	0.52 NTU	94.2 mV	51.99 ft	50.00 ml/min
8/28/2024 1:34 PM	05:00	7.38 pH	28.41 °C	431.61 µS/cm	6.43 mg/L	0.44 NTU	131.4 mV	52.31 ft	50.00 ml/min
8/28/2024 1:39 PM	10:00	7.57 pH	27.80 °C	435.25 µS/cm	4.58 mg/L	0.39 NTU	131.0 mV	52.55 ft	50.00 ml/min
8/28/2024 1:44 PM	15:00	7.66 pH	27.96 °C	435.61 µS/cm	4.52 mg/L	0.36 NTU	130.5 mV	52.80 ft	50.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/27/2024 1:00:03 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-53D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 132 ft** **Total Depth: 142.48 ft** **Initial Depth to Water: 26.58 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 137 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 2.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1400. Sunny, 92 degrees F.
Fe2+= 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/27/2024 1:00 PM	00:00	6.50 pH	33.96 °C	653.62 µS/cm	6.82 mg/L	0.78 NTU	92.5 mV	26.58 ft	100.00 ml/min
8/27/2024 1:05 PM	05:00	6.72 pH	32.60 °C	647.88 µS/cm	5.34 mg/L	0.31 NTU	102.8 mV	26.72 ft	100.00 ml/min
8/27/2024 1:10 PM	10:00	6.72 pH	31.58 °C	645.75 µS/cm	4.05 mg/L	0.24 NTU	-115.0 mV	26.78 ft	100.00 ml/min
8/27/2024 1:15 PM	15:00	6.74 pH	30.72 °C	642.56 µS/cm	3.30 mg/L	0.37 NTU	-134.5 mV	26.78 ft	100.00 ml/min
8/27/2024 1:20 PM	20:00	6.82 pH	30.22 °C	645.52 µS/cm	3.19 mg/L	0.33 NTU	-142.1 mV	26.78 ft	100.00 ml/min
8/27/2024 1:25 PM	25:00	6.86 pH	29.93 °C	644.29 µS/cm	3.02 mg/L	0.37 NTU	-129.9 mV	26.78 ft	100.00 ml/min
8/27/2024 1:30 PM	30:00	6.92 pH	29.67 °C	644.11 µS/cm	2.95 mg/L	0.42 NTU	-106.3 mV	26.78 ft	100.00 ml/min
8/27/2024 1:35 PM	35:00	6.95 pH	29.46 °C	644.16 µS/cm	3.03 mg/L	0.23 NTU	-80.8 mV	26.78 ft	100.00 ml/min
8/27/2024 1:40 PM	40:00	6.96 pH	30.25 °C	649.74 µS/cm	3.06 mg/L	0.18 NTU	-59.1 mV	26.78 ft	100.00 ml/min
8/27/2024 1:45 PM	45:00	6.96 pH	31.16 °C	648.76 µS/cm	2.85 mg/L	0.19 NTU	-37.5 mV	26.78 ft	100.00 ml/min
8/27/2024 1:50 PM	50:00	6.94 pH	31.34 °C	647.99 µS/cm	2.69 mg/L	0.22 NTU	-25.0 mV	26.78 ft	100.00 ml/min
8/27/2024 1:55 PM	55:00	6.93 pH	31.98 °C	650.41 µS/cm	2.57 mg/L	0.21 NTU	-18.7 mV	26.78 ft	100.00 ml/min
8/27/2024 2:00 PM	01:00:00	6.94 pH	32.56 °C	650.42 µS/cm	2.55 mg/L	0.19 NTU	-14.4 mV	26.78 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/28/2024 9:21:24 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-70I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42 ft** **Total Depth: 52.82 ft** **Initial Depth to Water: 31.53 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 11.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3.72 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1006. Sunny, 83 degrees F.
Fe2+= 0.0mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/28/2024 9:21 AM	00:00	6.04 pH	23.10 °C	301.75 µS/cm	4.79 mg/L	1.21 NTU	84.2 mV	31.53 ft	250.00 ml/min
8/28/2024 9:26 AM	05:00	5.36 pH	20.96 °C	308.65 µS/cm	1.33 mg/L	0.17 NTU	229.7 mV	31.79 ft	250.00 ml/min
8/28/2024 9:31 AM	10:00	5.29 pH	20.91 °C	307.03 µS/cm	0.79 mg/L	0.42 NTU	192.9 mV	31.81 ft	250.00 ml/min
8/28/2024 9:36 AM	15:00	5.29 pH	20.84 °C	305.90 µS/cm	0.71 mg/L	0.42 NTU	193.1 mV	31.83 ft	250.00 ml/min
8/28/2024 9:41 AM	20:00	5.29 pH	20.92 °C	304.49 µS/cm	0.73 mg/L	0.35 NTU	188.7 mV	31.84 ft	250.00 ml/min
8/28/2024 9:46 AM	25:00	5.29 pH	21.03 °C	306.56 µS/cm	0.81 mg/L	0.22 NTU	178.0 mV	31.84 ft	250.00 ml/min
8/28/2024 9:51 AM	30:00	5.28 pH	21.11 °C	304.65 µS/cm	0.74 mg/L	0.22 NTU	153.5 mV	31.84 ft	250.00 ml/min
8/28/2024 9:56 AM	35:00	5.25 pH	21.22 °C	306.79 µS/cm	0.76 mg/L	0.26 NTU	128.1 mV	31.84 ft	250.00 ml/min
8/28/2024 10:01 AM	40:00	5.25 pH	21.20 °C	307.84 µS/cm	0.84 mg/L	0.25 NTU	109.3 mV	31.84 ft	250.00 ml/min
8/28/2024 10:06 AM	45:00	5.28 pH	21.12 °C	306.51 µS/cm	0.90 mg/L	0.23 NTU	100.6 mV	31.84 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Plant Branch

Date: 8-27-24

Calibrated By: T. Goble

Field Conditions: Clear 71°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	SmarTroll	965658
Turbidity Meter	HACH	22080D00088P3

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	—	—	Sponge
pH (SU)	4.00	4GF0127	5/26	Pine
pH (SU)	7.00	3GJ0918	10/25	|
pH (SU)	10.00	3GL0168	12/25	|
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	|
ORP (mV)	240.0	3GL0404	9/24	|

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	New DI	—	Pine
	10	A4172	9/25	|
	20	A4183	10/25	|
	100	A4179	10/25	|

Calibration					
Time Start: 0810		**Time Finish:** 0835			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	91.18	25.44	± 10%	EPA 2023
pH (SU)	4.00	4.00	24.71	± 0.1	GWMP
pH (SU)	7.00	7.00	25.73	± 0.1	GWMP
pH (SU)	10.00	10.00	26.07	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1457	25.80	± 10% of standard	NA
ORP (mV)	240.0	235.1	25.69	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.26	± 10% of standard	EPA 2023
	10	10.1		
	20	20.3		
	100	99.3		

Calibration Check					
Time Start 1230		**Time Finish** 1240			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.05	26.09	± 0.1	GWMP
pH (SU)	7.00	7.04	26.14	± 0.1	GWMP
pH (SU)	10.00	9.98	25.77	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1422	25.32	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	10.1		
	20	20.2		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch

Date: 8-28-24

Calibrated By: T. Goble

Field Conditions: Clear 74°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	SmarTroll	965658
Turbidity Meter	HACH	22080D000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE~~BTZ~~7	5/26	PINE
pH (SU)	7.00	3GJ0919	10/25	PINE
pH (SU)	10.00	3GL0168	12/25	PINE
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	PINE
ORP (mV)	240.0	3GL0404	9/24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0830		**Time Finish:** 0855			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	107.54	23.56	± 10%	EPA 2023
pH (SU)	4.00	4.00	26.12	± 0.1	GWMP
pH (SU)	7.00	7.00	26.49	± 0.1	GWMP
pH (SU)	10.00	10.00	26.67	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1431	25.19	± 10% of standard	NA
ORP (mV)	240.0	247	26.60	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.27	± 10% of standard	EPA 2023
	10	10.3		
	20	20.3		
	100	101		

Calibration Check					
Time Start 1300		**Time Finish** 1315			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.04	26.19	± 0.1	GWMP
pH (SU)	7.00	7.02	26.27	± 0.1	GWMP
pH (SU)	10.00	10.02	25.22	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1439	25.69	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	10.1		
	20	20.3		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-E Date: 8/27/24

Calibrated By: D. Johnson Field Conditions: Sunny, 72° f

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll	884189 (rental)
Turbidity Meter	Hach	180900069258 (rental)

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GB13760	2/26	PINE
pH (SU)	7.00	4GC0526	3/24	PINE
pH (SU)	10.00	3GJ0041	10/25	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	5/25	PINE
ORP (mV)	240.0	3GL0404	9/24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4201	10/25	HACH
	20	A4201	10/25	HACH
	100	A4095	7/25	HACH

Calibration					
Time Start: 0820		**Time Finish:** 0837			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.86	22.54	± 10%	EPA 2023
pH (SU)	4.00	4.00	22.00	± 0.1	GWMP
pH (SU)	7.00	7.02	21.96	± 0.1	GWMP
pH (SU)	10.00	10.05	22.24	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1416	25.00	± 10% of standard	NA
ORP (mV)	240.0	232.9	22.00	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.18	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	104		

Calibration Check					
Time Start 1230		**Time Finish** 1240			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	26.23	± 0.1	GWMP
pH (SU)	7.00	7.00	26.10	± 0.1	GWMP
pH (SU)	10.00	10.02	26.18	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1414	27.04	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	10.0		
	20	20.1		
	100	100		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AP-E/BCD Date: 8/28/24

Calibrated By: D. Johnson Field Conditions: 75°f, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	TROLL	884189 (rental)
Turbidity Meter	Hach	18090C069298 (rental)

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GB1376	2/26	PINE
pH (SU)	7.00	4GC0526	3/26	PINE
pH (SU)	10.00	3GJ0041	10/25	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	5/25	PINE
ORP (mV)	240.0	3GL0404	9/24	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4201	10/25	HACH
	20	A4201	10/25	HACH
	100	A4095	7/25	HACH

Calibration					
Time Start: 0840		**Time Finish:** 0857			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.40	24.76	± 10%	EPA 2023
pH (SU)	4.00	4.00	25.40	± 0.1	GWMP
pH (SU)	7.00	7.00	25.49	± 0.1	GWMP
pH (SU)	10.00	10.00	25.38	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1410	25.00	± 10% of standard	NA
ORP (mV)	240.0	232.6	25.82	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	9.98		
	20	20.0		
	100	100		

Calibration Check					
Time Start 1200		**Time Finish** 1210			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	31.86	± 0.1	GWMP
pH (SU)	7.00	6.99	31.90	± 0.1	GWMP
pH (SU)	10.00	9.98	31.83	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1412	31.80	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	9.84		
	20	20.2		
	100	99.1		

Notes:

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	8/27/2024

Sensor **RDO**

Serial Number	1114594
Last Calibrated	8/27/2024

Calibration Details

Slope	1.0524752
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.17 mg/L
Temperature	22.54 °C
Barometric Pressure	1,006.7 mbar

Sensor **Conductivity**

Serial Number	884189
Last Calibrated	8/27/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.88
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor **Level**

Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	8/27/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	165.6 mV
Temperature	22.00 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	5.4 mV
Temperature	21.96 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-170.8 mV
Temperature	22.24 °C

Slope and Offset 1

Slope	-53.05 mV/pH
Offset	6.5 mV

Slope and Offset 2

Slope	-58.17 mV/pH
Offset	6.6 mV

ORP

ORP Solution	Zobell's
Offset	8.2 mV
Temperature	22.00 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	884189
Created	8/28/2024

Sensor **RDO**

Serial Number	1114594
Last Calibrated	8/28/2024

Calibration Details

Slope	1.0806775
Offset	-0.00 mg/L

Calibration point 100%

Concentration	7.62 mg/L
Temperature	24.76 °C
Barometric Pressure	1,006.1 mbar

Sensor **Conductivity**

Serial Number	884189
Last Calibrated	8/28/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.856
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor **Level**

Serial Number	879249
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	21633
Last Calibrated	8/28/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	151.3 mV
Temperature	25.24 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	5.2 mV
Temperature	25.37 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-165.9 mV
Temperature	25.01 °C

Slope and Offset 1

Slope	-48.7 mV/pH
Offset	5.2 mV

Slope and Offset 2

Slope	-57.02 mV/pH
Offset	5.2 mV

ORP

ORP Solution	Zobell's
Offset	8.4 mV
Temperature	25.41 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	8/27/2024

Sensor	**RDO**
Serial Number	964434
Last Calibrated	8/27/2024

Calibration Details

Slope	1.1405281
Offset	-0.00 mg/L

Calibration point 100%

Concentration	7.16 mg/L
Temperature	25.28 °C
Barometric Pressure	1,006.2 mbar

Sensor	**Conductivity**
Serial Number	965658
Last Calibrated	8/27/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.736
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	976298
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	8/27/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	162.8 mV
Temperature	24.71 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	9.4 mV
Temperature	25.75 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-134.1 mV
Temperature	26.07 °C

Slope and Offset 1

Slope	-51.13 mV/pH
Offset	9.4 mV

Slope and Offset 2

Slope	-47.83 mV/pH
Offset	9.4 mV

ORP

ORP Solution	ORP Standard
Offset	46.4 mV
Temperature	25.68 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	965658
Created	8/28/2024

Sensor	**RDO**
Serial Number	964434
Last Calibrated	8/28/2024

Calibration Details

Slope	1.0447013
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.06 mg/L
Temperature	23.56 °C
Barometric Pressure	1,006.0 mbar

Sensor	**Conductivity**
Serial Number	965658
Last Calibrated	8/28/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.852
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	976298
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22007
Last Calibrated	8/28/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	162.5 mV
Temperature	26.12 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	10.5 mV
Temperature	26.49 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-133.7 mV
Temperature	26.67 °C

Slope and Offset 1

Slope	-50.67 mV/pH
Offset	10.5 mV

Slope and Offset 2

Slope	-48.05 mV/pH
Offset	10.5 mV

ORP

ORP Solution	ORP Standard
Offset	19.2 mV
Temperature	26.60 °C

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

May 14, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds Upgradient-Total Metals*
Work Order: 709660

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 19, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 709660 in the left-hand footer of the data report. This package has been updated to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
709660001	BRA-BRGWA-5I	Ground Water	02/18/25 10:02	02/19/25 13:10
709660002	BRA-BRGWA-5S	Ground Water	02/18/25 09:59	02/19/25 13:10
709660003	BRA-BRGWA-2I	Ground Water	02/18/25 10:30	02/19/25 13:10
709660004	BRA-BRGWA-2S	Ground Water	02/18/25 11:25	02/19/25 13:10
709660005	BRA-BRGWA-6S	Ground Water	02/18/25 13:05	02/19/25 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	20-FEB-2025
SW846 7470A Prep	21-FEB-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	20-FEB-2025

SM 2320B	19-FEB-2025
SM 2540C	24-FEB-2025
SM 2540C	25-FEB-2025
SW846 3005A/6020B	04-MAR-2025
SW846 7470A	24-FEB-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 709660 GEL Work Order: 709660

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5I
Sample ID: 709660001
Matrix: WG
Collect Date: 18-FEB-25 10:02
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.05	0.0670	0.200	mg/L		1	CWW	02/20/25	0224	2753353	1
Fluoride	J	0.0553	0.0330	0.100	mg/L		1					
Sulfate		3.16	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1403	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0512	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0320	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00591	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		16.9	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00451	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		9.84	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00176	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00141	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.48	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.78	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		106	2.38	10.0	mg/L			RR4	02/24/25	1332	2755063	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		79.3	0.725	2.00	mg/L			JW2	02/19/25	1529	2753332	5
Bicarbonate alkalinity (CaCO3)		79.3	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5I
Sample ID: 709660001
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5S
Sample ID: 709660002
Matrix: WG
Collect Date: 18-FEB-25 09:59
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.34	0.0670	0.200	mg/L		1	CWW	02/20/25	0256	2753353	1
Fluoride	J	0.0749	0.0330	0.100	mg/L		1					
Sulfate		0.543	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1405	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0515	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0334	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00548	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		16.5	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00705	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0663	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.99	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00361	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.538	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		5.04	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		92.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		77.7	0.725	2.00	mg/L			JW2	02/19/25	1530	2753332	5
Bicarbonate alkalinity (CaCO3)		77.7	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-5S
Sample ID: 709660002
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2I
Sample ID: 709660003
Matrix: WG
Collect Date: 18-FEB-25 10:30
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.09	0.0670	0.200	mg/L		1	CWW	02/20/25	0327	2753353	1
Fluoride	J	0.0566	0.0330	0.100	mg/L		1					
Sulfate		3.07	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1406	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0518	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00462	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		13.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000715	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0731	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00603	0.00300	0.0100	mg/L	1.00	1					
Magnesium		7.64	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0134	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.24	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.89	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		84.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		69.9	0.725	2.00	mg/L			JW2	02/19/25	1531	2753332	5
Bicarbonate alkalinity (CaCO3)		69.9	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2I
Sample ID: 709660003
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2S
Sample ID: 709660004
Matrix: WG
Collect Date: 18-FEB-25 11:25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.09	0.0670	0.200	mg/L		1	CWW	02/20/25	0359	2753353	1
Fluoride	J	0.0709	0.0330	0.100	mg/L		1					
Sulfate	J	0.341	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1408	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0522	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0131	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.76	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00765	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00111	0.000300	0.00100	mg/L	1.00	1					
Iron		0.191	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		5.56	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0434	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.467	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		3.56	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		44.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		40.8	0.725	2.00	mg/L			JW2	02/19/25	1532	2753332	5
Bicarbonate alkalinity (CaCO3)		40.8	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-2S
Sample ID: 709660004
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID: BRA-BRGWA-6S
Sample ID: 709660005
Matrix: WG
Collect Date: 18-FEB-25 13:05
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.25	0.0670	0.200	mg/L		1	CWW	02/20/25	0431	2753353	1
Fluoride	J	0.0527	0.0330	0.100	mg/L		1					
Sulfate		0.468	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/24/25	1410	2754163	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/04/25	0525	2753351	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0142	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.11	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0677	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		4.04	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00145	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		0.722	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		2.35	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		46.0	2.38	10.0	mg/L			RR4	02/25/25	1441	2755621	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		26.1	0.725	2.00	mg/L			JW2	02/19/25	1533	2753332	5
Bicarbonate alkalinity (CaCO3)		26.1	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Plant Branch Ash PondsUpgradient-Total Metals*

Client Sample ID:	BRA-BRGWA-6S	Project:	GPCC00325
Sample ID:	709660005	Client ID:	GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/21/25	1005	2754162
SW846 3005A	ICP-MS 3005A PREP	BB2	02/20/25	0840	2753350

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: May 14, 2025

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2753353												
QC1206012442 709660005 DUP												
Chloride			2.25		2.27	mg/L	1			(0%-20%)	CWW	02/20/25 05:03
Fluoride		J	0.0527	J	0.0526	mg/L	0.19	^		(+/-0.100)		
Sulfate			0.468		0.455	mg/L	2.67	^		(+/-0.400)		
QC1206012439 LCS												
Chloride	5.00				4.70	mg/L			94	(90%-110%)		02/19/25 17:55
Fluoride	2.50				2.37	mg/L			94.8	(90%-110%)		
Sulfate	10.0				9.62	mg/L			96.2	(90%-110%)		
QC1206012438 MB												
Chloride				U	ND	mg/L						02/19/25 17:23
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1206012443 709660005 PS												
Chloride	5.00		2.25		7.03	mg/L			95.6	(90%-110%)		02/20/25 05:35
Fluoride	2.50	J	0.0527		2.46	mg/L			96.5	(90%-110%)		
Sulfate	10.0		0.468		9.89	mg/L			94.2	(90%-110%)		

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
QC1206012427 LCS										
Antimony	0.0500			0.0481	mg/L		96.2	(80%-120%)	PRB	03/04/25 04:33
Arsenic	0.0500			0.0447	mg/L		89.4	(80%-120%)		
Barium	0.0500			0.0484	mg/L		96.7	(80%-120%)		
Beryllium	0.0500			0.0558	mg/L		112	(80%-120%)		
Boron	0.100			0.105	mg/L		105	(80%-120%)		
Cadmium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Calcium	2.00			2.02	mg/L		101	(80%-120%)		
Chromium	0.0500			0.0478	mg/L		95.5	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Iron	2.00			1.93	mg/L		96.4	(80%-120%)		
Lead	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Lithium	0.0500			0.0512	mg/L		102	(80%-120%)		
Magnesium	2.00			2.00	mg/L		100	(80%-120%)		
Manganese	0.0500			0.0476	mg/L		95.1	(80%-120%)		

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
Molybdenum	0.0500			0.0502	mg/L		100	(80%-120%)	PRB	03/04/25 04:33
Potassium	2.00			2.01	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0456	mg/L		91.1	(80%-120%)		
Sodium	2.00			1.92	mg/L		95.8	(80%-120%)		
Thallium	0.0500			0.0484	mg/L		96.8	(80%-120%)		
QC1206012426 MB										
Antimony			U	ND	mg/L					03/04/25 04:30
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Iron				U	ND	mg/L				PRB	03/04/25 04:30
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1206012428 709658001 MS											
Antimony	0.0500	U	ND		0.0493	mg/L		98.4	(75%-125%)		03/04/25 04:39
Arsenic	0.0500	U	ND		0.0496	mg/L		96.4	(75%-125%)		
Barium	0.0500		0.0266		0.0759	mg/L		98.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0533	mg/L		106	(75%-125%)		

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Boron	0.100		0.682		0.764	mg/L		N/A	(75%-125%)	PRB	03/04/25 11:15
Cadmium	0.0500	U	ND		0.0490	mg/L		97.8	(75%-125%)		03/04/25 04:39
Calcium	2.00		322		321	mg/L		N/A	(75%-125%)		03/04/25 11:15
Chromium	0.0500	U	ND		0.0473	mg/L		94.1	(75%-125%)		03/04/25 04:39
Cobalt	0.0500	U	ND		0.0468	mg/L		93.3	(75%-125%)		
Iron	2.00	J	0.0454		1.93	mg/L		94.4	(75%-125%)		
Lead	0.0500	U	ND		0.0476	mg/L		95.1	(75%-125%)		
Lithium	0.0500		0.0456		0.0973	mg/L		104	(75%-125%)		
Magnesium	2.00		121		120	mg/L		N/A	(75%-125%)		03/04/25 11:15
Manganese	0.0500		0.00667		0.0529	mg/L		92.5	(75%-125%)		03/04/25 04:39
Molybdenum	0.0500	J	0.000295		0.0549	mg/L		109	(75%-125%)		
Potassium	2.00		11.4		13.5	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0524	mg/L		103	(75%-125%)		
Sodium	2.00		40.8		43.4	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Thallium	0.0500	U	ND		0.0468	mg/L		93.5	(75%-125%)	PRB	03/04/25 04:39
QC1206012429 709658001 MSD											
Antimony	0.0500	U	ND		0.0490	mg/L	0.48	97.9	(0%-20%)		03/04/25 04:43
Arsenic	0.0500	U	ND		0.0493	mg/L	0.566	95.9	(0%-20%)		
Barium	0.0500		0.0266		0.0755	mg/L	0.599	97.7	(0%-20%)		
Beryllium	0.0500	U	ND		0.0528	mg/L	0.99	105	(0%-20%)		
Boron	0.100		0.682		0.845	mg/L	10	N/A	(0%-20%)		03/04/25 11:19
Cadmium	0.0500	U	ND		0.0482	mg/L	1.67	96.2	(0%-20%)		03/04/25 04:43
Calcium	2.00		322		361	mg/L	11.7	N/A	(0%-20%)		03/04/25 11:19
Chromium	0.0500	U	ND		0.0474	mg/L	0.188	94.2	(0%-20%)		03/04/25 04:43
Cobalt	0.0500	U	ND		0.0465	mg/L	0.579	92.7	(0%-20%)		
Iron	2.00	J	0.0454		1.90	mg/L	1.74	92.7	(0%-20%)		
Lead	0.0500	U	ND		0.0471	mg/L	0.993	94.2	(0%-20%)		
Lithium	0.0500		0.0456		0.0939	mg/L	3.6	96.7	(0%-20%)		
Magnesium	2.00		121		133	mg/L	10.2	N/A	(0%-20%)		03/04/25 11:19

QC Summary

Workorder: **709660**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2753351											
Manganese	0.0500		0.00667		0.0529	mg/L	0.085	92.6	(0%-20%)	PRB	03/04/25 04:43
Molybdenum	0.0500	J	0.000295		0.0542	mg/L	1.31	108	(0%-20%)		
Potassium	2.00		11.4		13.3	mg/L	1.6	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0527	mg/L	0.515	104	(0%-20%)		
Sodium	2.00		40.8		41.8	mg/L	3.88	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0469	mg/L	0.235	93.7	(0%-20%)		
QC1206012430 709658001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			26.6		5.55	ug/L	4.29		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			68.2		21.8	ug/L	60.2		(0%-20%)		03/04/25 11:22
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49
Calcium			32200		6430	ug/L	.302		(0%-20%)		03/04/25 11:22
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/04/25 04:49

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2753351										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	03/04/25 04:49
Iron	J	45.4	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		45.6	J	8.74	ug/L	4.06		(0%-20%)		
Magnesium		12100		2480	ug/L	2.72		(0%-20%)		03/04/25 11:22
Manganese		6.67	J	1.35	ug/L	1.05		(0%-20%)		03/04/25 04:49
Molybdenum	J	0.295	U	ND	ug/L	N/A		(0%-20%)		
Potassium		11400		2370	ug/L	4.21		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		40800		8100	ug/L	.712		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2754163										
QC1206013890 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)	JP2	02/24/25 13:34
QC1206013889 MB										
Mercury			U	ND	mg/L					02/24/25 13:32

QC Summary

Workorder: 709660

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2754163										
QC1206013891 709607001 MS										
Mercury	0.00200 U	ND		0.00209	mg/L		104	(75%-125%)	JP2	02/24/25 13:37
QC1206013892 709607001 MSD										
Mercury	0.00200 U	ND		0.00202	mg/L	3.6	100	(0%-20%)		02/24/25 13:42
QC1206013893 709607001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/24/25 13:44
Solids Analysis										
Batch 2755063										
QC1206015752 709657007 DUP										
Total Dissolved Solids	J	8.00	J	5.00	mg/L	46.2 ^		(+/-10.0)	RR4	02/24/25 13:32
QC1206015750 LCS										
Total Dissolved Solids	300			285	mg/L		95	(95%-105%)		02/24/25 13:32
QC1206015749 MB										
Total Dissolved Solids			U	ND	mg/L					02/24/25 13:32
Batch 2755621										
QC1206016936 709735008 DUP										
Total Dissolved Solids		2060		2140	mg/L	3.62		(0%-5%)	RR4	02/25/25 14:41
QC1206016934 LCS										
Total Dissolved Solids	300			285	mg/L		95	(95%-105%)		02/25/25 14:41
QC1206016933 MB										
Total Dissolved Solids			U	ND	mg/L					02/25/25 14:41

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2753332											
QC1206012395 LCS											
Alkalinity, Total as CaCO3	50.0			53.2	mg/L		106	(90%-110%)	JW2	02/19/25	15:20
QC1206012396 LCS											
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106	(90%-110%)		02/19/25	15:22
QC1206012397 LCSD											
Alkalinity, Total as CaCO3	50.0			53.1	mg/L	0.188	106	(0%-20%)		02/19/25	15:21
QC1206012398 LCSD											
Alkalinity, Total as CaCO3	15.0			15.7	mg/L	1.27	105	(0%-20%)		02/19/25	15:23

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

QC Summary

Workorder: **709660**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2753351

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2753350

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206012426	Method Blank (MB)**ICP-MS**
1206012427	Laboratory Control Sample (LCS)
1206012430	709658001(BRA-BRGWC-47L) Serial Dilution (SD)
1206012428	709658001(BRA-BRGWC-47S) Matrix Spike (MS)
1206012429	709658001(BRA-BRGWC-47SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2754163

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2754162

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206013889	Method Blank (MB)**CVAA**
1206013890	Laboratory Control Sample (LCS)
1206013893	709607001(NonSDGL) Serial Dilution (SD)
1206013891	709607001(NonSDGS) Matrix Spike (MS)
1206013892	709607001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2753353

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206012438	Method Blank (MB)
1206012439	Laboratory Control Sample (LCS)
1206012442	709660005(BRA-BRGWA-6S) Sample Duplicate (DUP)
1206012443	709660005(BRA-BRGWA-6S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Manual Integrations
Samples 1206012442 (BRA-BRGWA-6SDUP), 1206012443 (BRA-BRGWA-6SPS), 709660001 (BRA-BRGWA-5I), 709660002 (BRA-BRGWA-5S), 709660003 (BRA-BRGWA-2I), 709660004

(BRA-BRGWA-2S) and 709660005 (BRA-BRGWA-6S) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2755063

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
1206015749	Method Blank (MB)
1206015750	Laboratory Control Sample (LCS)
1206015752	709657007(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2755621

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206016933	Method Blank (MB)
1206016934	Laboratory Control Sample (LCS)
1206016936	709735008(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the sample for approximate concentration prior to analysis. 1206016936 (Non SDG 709735008DUP).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2753332

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S
1206012395	Laboratory Control Sample (LCS)
1206012396	Laboratory Control Sample (LCS)
1206012397	Laboratory Control Sample Duplicate (LCSD)
1206012398	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

709660
709661

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Berry, D. Johnson, T. Goble ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
BRA- BR GWA-5I	02/18/25	1002	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BR GWA-9S	02/18/25	0959	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWA-2I	02/18/25	1030	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWA-2S	02/18/25	1125	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWA-6S	02/18/25	1305	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														
BRA-														
BRA-														

Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/19/25	0810		2/19/25	810
2		2/19/25	1310		2/19/25	1310
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

709660 709658
709661 709659

Client: GPCC	SDG/AR/COC/Work Order:	GEL PM:
Received By: QG	Date Received at GEL: 2/19/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0°c				
2	0°c				
3	0°c				
4	0°c				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 20 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 14 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

May 14, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds Plant Branch Ash Ponds- E
Work Order: 710955

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 27, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 710955 in the left-hand footer of the data report. This package has been updated to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
710955001	BRA-PZ-53D	Ground Water	02/26/25 09:36	02/27/25 13:00
710955002	BRA-BRGWC-38S	Ground Water	02/26/25 10:00	02/27/25 13:00
710955003	BRA-APE-FD-04	Ground Water	02/26/25 12:00	02/27/25 13:00
710955004	BRA-PZ-13S	Ground Water	02/26/25 10:08	02/27/25 13:00
710955005	BRA-BRGWC-33S	Ground Water	02/26/25 11:26	02/27/25 13:00
710955006	BRA-APE-FB-07	Water	02/26/25 12:00	02/27/25 13:00
710955007	BRA-APE-EB-09	Water	02/26/25 12:25	02/27/25 13:00
710955008	BRA-BRGWC-36S	Ground Water	02/26/25 11:56	02/27/25 13:00
710955009	BRA-PZ-70I	Ground Water	02/26/25 12:32	02/27/25 13:00
710955010	BRA-BRGWC-35S	Ground Water	02/26/25 13:39	02/27/25 13:00
710955011	BRA-APE-FD-05	Ground Water	02/26/25 12:00	02/27/25 13:00
710955012	BRA-APE-EB-10	Water	02/26/25 14:50	02/27/25 13:00
710955013	BRA-BRGWC-37S	Ground Water	02/26/25 15:17	02/27/25 13:00
710955014	BRA-APE-FB-08	Water	02/26/25 15:20	02/27/25 13:00
710955015	BRA-BRGWC-17S	Ground Water	02/26/25 15:45	02/27/25 13:00

710955016	BRA-BRGWC-34S	Ground Water	02/26/25 16:43	02/27/25 13:00
710955017	BRA-PZ-52D	Ground Water	02/26/25 15:16	02/27/25 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	28-FEB-2025
SW846 7470A Prep	05-MAR-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-MAR-2025
EPA 300.0	28-FEB-2025
SM 2320B	27-FEB-2025
SM 2540C	05-MAR-2025
SW846 3005A/6020B	08-MAR-2025
SW846 3005A/6020B	09-MAR-2025
SW846 7470A	06-MAR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 710955 GEL Work Order: 710955

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-PZ-53D	Project:	GPCC00325
Sample ID:	710955001	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 09:36		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.37	0.0670	0.200	mg/L		1	CH6	02/28/25	1905	2758449	1
Fluoride	J	0.0608	0.0330	0.100	mg/L		1					
Sulfate		309	3.33	10.0	mg/L		25	CH6	03/01/25	1235	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1200	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1451	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0523	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.152	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0182	0.00300	0.0100	mg/L	1.00	1					
Magnesium		20.8	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.433	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00158	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.54	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		40.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.21	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1639	2757683	5
Calcium		87.6	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		512	2.38	10.0	mg/L			RR4	03/05/25	1029	2758576	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		50.3	0.725	2.00	mg/L			JW2	02/27/25	1608	2757662	7
Bicarbonate alkalinity (CaCO3)		50.3	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-PZ-53D	Project:	GPCC00325
Sample ID:	710955001	Client ID:	GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-38S
Sample ID: 710955002
Matrix: WG
Collect Date: 26-FEB-25 10:00
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.76	0.0670	0.200	mg/L		1	CH6	02/28/25	2037	2758449	1
Fluoride		0.336	0.0330	0.100	mg/L		1					
Sulfate		199	3.33	10.0	mg/L		25	CH6	03/01/25	1408	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1211	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1510	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0170	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00515	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		20.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.109	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0178	0.00300	0.0100	mg/L	1.00	1					
Magnesium		23.9	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.93	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0147	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.15	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1656	2757683	5
Manganese		1.12	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		329	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/27/25	1609	2757662	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-38S
Sample ID: 710955002
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-APE-FD-04	Project:	GPCC00325
Sample ID:	710955003	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 12:00		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.26	0.0670	0.200	mg/L		1	CH6	02/28/25	2108	2758449	1
Fluoride	J	0.0388	0.0330	0.100	mg/L		1					
Sulfate		106	1.33	4.00	mg/L		10	CH6	03/01/25	1439	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1213	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1512	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000550	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0397	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		21.8	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0128	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		12.4	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00192	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.04	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00345	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		196	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.1	0.725	2.00	mg/L			JW2	02/27/25	1609	2757662	6
Bicarbonate alkalinity (CaCO3)		16.1	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-APE-FD-04 Project: GPCC00325
Sample ID: 710955003 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-PZ-13S	Project:	GPCC00325
Sample ID:	710955004	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 10:08		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.27	0.0670	0.200	mg/L		1	CH6	02/28/25	2139	2758449	1
Fluoride	J	0.0404	0.0330	0.100	mg/L		1					
Sulfate		106	1.33	4.00	mg/L		10	CH6	03/01/25	1509	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1215	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1701	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0520	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000457	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0140	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		22.0	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0132	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		12.6	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00179	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.12	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00308	0.00150	0.00500	mg/L	1.00	1					
Sodium		11.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		208	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.0	0.725	2.00	mg/L			JW2	02/27/25	1611	2757662	6
Bicarbonate alkalinity (CaCO3)		16.0	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-PZ-13S
Sample ID: 710955004
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-BRGWC-33S	Project:	GPCC00325
Sample ID:	710955005	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 11:26		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.143	0.0330	0.100	mg/L		1	CH6	02/28/25	2210	2758449	1
Chloride		96.1	13.4	40.0	mg/L		200	CH6	03/01/25	1540	2758449	2
Sulfate		1580	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1216	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1518	2757683	4
Arsenic		0.00896	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0543	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00181	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00100	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.106	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0785	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0102	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		24.5	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0286	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.04	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1716	2757683	5
Calcium		443	1.60	4.00	mg/L	1.00	20					
Magnesium		98.0	0.200	0.600	mg/L	1.00	20					
Manganese		5.97	0.0200	0.100	mg/L	1.00	20					
Sodium		127	1.60	5.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2440	4.76	20.0	mg/L			RR4	03/05/25	1131	2758577	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		2.80	0.725	2.00	mg/L			JW2	02/27/25	1612	2757662	7
Bicarbonate alkalinity (CaCO3)		2.80	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-33S
Sample ID: 710955005
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-APE-FB-07	Project:	GPCC00325
Sample ID:	710955006	Client ID:	GPCC002
Matrix:	WQ		
Collect Date:	26-FEB-25 12:00		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	02/28/25	2241	2758449	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.269	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1218	2760195	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1707	2757683	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0516	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00365	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/27/25	1614	2757662	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-APE-FB-07 Project: GPCC00325
Sample ID: 710955006 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-APE-EB-09
Sample ID: 710955007
Matrix: WQ
Collect Date: 26-FEB-25 12:25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.192	0.0670	0.200	mg/L		1	CH6	03/01/25	0014	2758449	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1220	2760195	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1709	2757683	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0116	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/27/25	1614	2757662	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-APE-EB-09 Project: GPCC00325
Sample ID: 710955007 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-36S
Sample ID: 710955008
Matrix: WG
Collect Date: 26-FEB-25 11:56
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.26	0.0670	0.200	mg/L		1	CH6	03/01/25	0044	2758449	1
Fluoride	J	0.0348	0.0330	0.100	mg/L		1					
Sulfate		212	3.33	10.0	mg/L		25	CH6	03/01/25	1611	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1221	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1526	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0267	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		42.5	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00674	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		17.4	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00188	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		3.59	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00173	0.00150	0.00500	mg/L	1.00	1					
Sodium		37.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.21	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1712	2757683	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		375	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		21.0	0.725	2.00	mg/L			JW2	02/27/25	1615	2757662	7
Bicarbonate alkalinity (CaCO3)		21.0	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-36S
Sample ID: 710955008
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-PZ-70I	Project:	GPCC00325
Sample ID:	710955009	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 12:32		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.31	0.0670	0.200	mg/L		1	CH6	03/01/25	0115	2758449	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		139	1.33	4.00	mg/L		10	CH6	03/01/25	1642	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.00173	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1228	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1534	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0202	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000370	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		32.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000507	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00401	0.00300	0.0100	mg/L	1.00	1					
Magnesium		11.1	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.205	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.14	0.0800	0.300	mg/L	1.00	1					
Selenium		0.00633	0.00150	0.00500	mg/L	1.00	1					
Sodium		18.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.10	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1719	2757683	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		258	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		16.7	0.725	2.00	mg/L			JW2	02/27/25	1616	2757662	7
Bicarbonate alkalinity (CaCO3)		16.7	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-PZ-70I
Sample ID: 710955009
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-35S
Sample ID: 710955010
Matrix: WG
Collect Date: 26-FEB-25 13:39
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.55	0.0670	0.200	mg/L		1	CH6	03/01/25	0146	2758449	1
Fluoride	J	0.0472	0.0330	0.100	mg/L		1					
Sulfate		266	3.33	10.0	mg/L		25	CH6	03/01/25	1712	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1230	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1537	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0291	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00553	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		33.9	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0107	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.35	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		19.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.58	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1727	2757683	5
Calcium		67.8	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		490	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		53.5	0.725	2.00	mg/L			JW2	02/27/25	1617	2757662	7
Bicarbonate alkalinity (CaCO3)		53.5	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-35S
Sample ID: 710955010
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-APE-FD-05	Project:	GPCC00325
Sample ID:	710955011	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 12:00		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0906	0.0330	0.100	mg/L		1	CH6	03/01/25	0217	2758449	1
Chloride		22.3	2.68	8.00	mg/L		40	CH6	03/01/25	1845	2758449	2
Sulfate		394	5.32	16.0	mg/L		40					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1231	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1540	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0331	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000210	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00596	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.50	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.12	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1730	2757683	5
Calcium		124	1.60	4.00	mg/L	1.00	20					
Manganese		4.71	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		623	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.4	0.725	2.00	mg/L			JW2	02/27/25	1618	2757662	7
Bicarbonate alkalinity (CaCO3)		35.4	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-APE-FD-05 Project: GPCC00325
Sample ID: 710955011 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-APE-EB-10	Project:	GPCC00325
Sample ID:	710955012	Client ID:	GPCC002
Matrix:	WQ		
Collect Date:	26-FEB-25 14:50		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	03/01/25	0248	2758449	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1233	2760195	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1732	2757683	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00750	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/27/25	1619	2757662	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-APE-EB-10 Project: GPCC00325
Sample ID: 710955012 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-BRGWC-37S	Project:	GPCC00325
Sample ID:	710955013	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 15:17		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1.97	0.0670	0.200	mg/L		1	CH6	03/01/25	0319	2758449	1
Fluoride	J	0.0523	0.0330	0.100	mg/L		1					
Sulfate	J	0.348	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1235	2760195	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1735	2757683	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0264	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00753	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.77	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		1.29	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00183	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		4.54	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		23.0	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		22.1	0.725	2.00	mg/L			JW2	02/27/25	1620	2757662	5
Bicarbonate alkalinity (CaCO3)		22.1	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-37S
Sample ID: 710955013
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-APE-FB-08	Project:	GPCC00325
Sample ID:	710955014	Client ID:	GPCC002
Matrix:	WQ		
Collect Date:	26-FEB-25 15:20		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	03/01/25	0350	2758449	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1236	2760195	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1738	2757683	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/27/25	1621	2757662	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-APE-FB-08 Project: GPCC00325
Sample ID: 710955014 Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-17S
Sample ID: 710955015
Matrix: WG
Collect Date: 26-FEB-25 15:45
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.96	0.0670	0.200	mg/L		1	CH6	03/01/25	0420	2758449	1
Fluoride	J	0.0663	0.0330	0.100	mg/L		1					
Sulfate		206	3.33	10.0	mg/L		25	CH6	03/01/25	1915	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1238	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1551	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0508	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00685	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		28.9	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00225	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.20	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00261	0.00150	0.00500	mg/L	1.00	1					
Sodium		26.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		49.9	1.60	4.00	mg/L	1.00	20	PRB	03/08/25	1741	2757683	5
Boron		0.0756	0.00520	0.0150	mg/L	1.00	1	PRB	03/09/25	1951	2757683	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		400	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		72.3	0.725	2.00	mg/L			JW2	02/27/25	1622	2757662	8
Bicarbonate alkalinity (CaCO3)		72.3	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-17S
Sample ID: 710955015
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-BRGWC-34S	Project:	GPCC00325
Sample ID:	710955016	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 16:43		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.100	0.0330	0.100	mg/L		1	CH6	03/01/25	0451	2758449	1
Chloride		23.0	2.68	8.00	mg/L		40	CH6	03/01/25	1946	2758449	2
Sulfate		400	5.32	16.0	mg/L		40					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.000131	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1239	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1553	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0329	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00592	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium		27.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.45	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		25.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.19	0.104	0.300	mg/L	1.00	20	PRB	03/08/25	1743	2757683	5
Calcium		127	1.60	4.00	mg/L	1.00	20					
Manganese		4.83	0.0200	0.100	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		609	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		35.3	0.725	2.00	mg/L			JW2	02/27/25	1624	2757662	7
Bicarbonate alkalinity (CaCO3)		35.3	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-BRGWC-34S
Sample ID: 710955016
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID:	BRA-PZ-52D	Project:	GPCC00325
Sample ID:	710955017	Client ID:	GPCC002
Matrix:	WG		
Collect Date:	26-FEB-25 15:16		
Receive Date:	27-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.25	0.0670	0.200	mg/L		1	CH6	03/01/25	0624	2758449	1
Fluoride		2.03	0.0330	0.100	mg/L		1					
Sulfate		72.2	0.665	2.00	mg/L		5	CH6	03/01/25	2017	2758449	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	03/06/25	1241	2760195	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/08/25	1746	2757683	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0163	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0842	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		48.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000373	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0182	0.00300	0.0100	mg/L	1.00	1					
Magnesium		12.2	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00289	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00804	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.23	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium		43.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		276	2.38	10.0	mg/L			RR4	03/05/25	1131	2758577	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		174	0.725	2.00	mg/L			JW2	02/27/25	1625	2757662	6
Bicarbonate alkalinity (CaCO3)		174	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Plant Branch Ash PondsPlant Branch Ash Ponds- E

Client Sample ID: BRA-PZ-52D
Sample ID: 710955017
Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	02/28/25	0825	2757682
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	BB2	03/05/25	1145	2760194

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: May 14, 2025

Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **710955**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2758449													
QC1206022162 710955001 DUP													
Chloride			4.37		4.37	mg/L	0.0663			(0%-20%)	CH6	02/28/25	19:36
Fluoride		J	0.0608	J	0.0564	mg/L	7.51	^		(+/-0.100)			
Sulfate			309		310	mg/L	0.16			(0%-20%)		03/01/25	13:06
QC1206022164 710996022 DUP													
Chloride			1.84		1.85	mg/L	0.103			(0%-20%)		03/01/25	07:57
Fluoride		J	0.0590	J	0.0616	mg/L	4.31	^		(+/-0.100)			
Sulfate			0.425		0.442	mg/L	4.01	^		(+/-0.400)			
QC1206022161 LCS													
Chloride	5.00				4.80	mg/L			96.1	(90%-110%)		02/28/25	18:34
Fluoride	2.50				2.41	mg/L			96.5	(90%-110%)			
Sulfate	10.0				9.89	mg/L			98.9	(90%-110%)			
QC1206022160 MB													
Chloride				U	ND	mg/L						02/28/25	18:03
Fluoride				U	ND	mg/L							
Sulfate				U	ND	mg/L							

QC Summary

Workorder: 710955

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2758449											
QC1206022163 710955001 PS											
Chloride	5.00		4.37		9.76	mg/L		108	(90%-110%)	CH6	02/28/25 20:07
Fluoride	2.50	J	0.0608		2.55	mg/L		99.6	(90%-110%)		
Sulfate	10.0		12.4		23.1	mg/L		107	(90%-110%)		03/01/25 13:37
QC1206022165 710996022 PS											
Chloride	5.00		1.84		6.98	mg/L		103	(90%-110%)		03/01/25 08:27
Fluoride	2.50	J	0.0590		2.67	mg/L		104	(90%-110%)		
Sulfate	10.0		0.425		10.5	mg/L		101	(90%-110%)		
Metals Analysis - ICPMS											
Batch 2757683											
QC1206020833 LCS											
Antimony	0.0500				0.0499	mg/L		99.7	(80%-120%)	PRB	03/08/25 14:48
Arsenic	0.0500				0.0504	mg/L		101	(80%-120%)		
Barium	0.0500				0.0532	mg/L		106	(80%-120%)		
Beryllium	0.0500				0.0567	mg/L		113	(80%-120%)		
Boron	0.100				0.113	mg/L		113	(80%-120%)		03/08/25 16:37
Cadmium	0.0500				0.0509	mg/L		102	(80%-120%)		03/08/25 14:48
Calcium	2.00				2.20	mg/L		110	(80%-120%)		

QC Summary

Workorder: **710955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2757683										
Chromium	0.0500			0.0503	mg/L		101	(80%-120%)	PRB	03/08/25 14:48
Cobalt	0.0500			0.0503	mg/L		101	(80%-120%)		
Iron	2.00			2.04	mg/L		102	(80%-120%)		
Lead	0.0500			0.0519	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0538	mg/L		108	(80%-120%)		
Magnesium	2.00			2.17	mg/L		109	(80%-120%)		
Manganese	0.0500			0.0510	mg/L		102	(80%-120%)		
Molybdenum	0.0500			0.0525	mg/L		105	(80%-120%)		
Potassium	2.00			2.16	mg/L		108	(80%-120%)		
Selenium	0.0500			0.0520	mg/L		104	(80%-120%)		
Sodium	2.00			2.04	mg/L		102	(80%-120%)		
Thallium	0.0500			0.0508	mg/L		102	(80%-120%)		
QC1206020832 MB										
Antimony			U	ND	mg/L					03/08/25 14:45
Arsenic			U	ND	mg/L					

QC Summary

Workorder: **710955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2757683										
Barium			U	ND	mg/L				PRB	03/08/25 14:45
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					03/08/25 16:34
Cadmium			U	ND	mg/L					03/08/25 14:45
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					

QC Summary

Workorder: **710955**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2757683											
Selenium				U	ND	mg/L				PRB	03/08/25 14:45
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1206020834 710955001 MS											
Antimony	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		03/08/25 14:53
Arsenic	0.0500	U	ND		0.0515	mg/L		101	(75%-125%)		
Barium	0.0500		0.0523		0.105	mg/L		105	(75%-125%)		
Beryllium	0.0500	U	ND		0.0568	mg/L		114	(75%-125%)		
Boron	0.100		1.21		1.32	mg/L		N/A	(75%-125%)		03/08/25 16:42
Cadmium	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		03/08/25 14:53
Calcium	2.00		87.6		91.0	mg/L		N/A	(75%-125%)		03/08/25 16:42
Chromium	0.0500	U	ND		0.0499	mg/L		99.3	(75%-125%)		03/08/25 14:53
Cobalt	0.0500	U	ND		0.0495	mg/L		98.5	(75%-125%)		
Iron	2.00		0.152		2.12	mg/L		98.2	(75%-125%)		
Lead	0.0500	U	ND		0.0500	mg/L		100	(75%-125%)		

QC Summary

Workorder: **710955**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2757683											
Lithium	0.0500		0.0182		0.0725	mg/L		109	(75%-125%)	PRB	03/08/25 14:53
Magnesium	2.00		20.8		22.6	mg/L		N/A	(75%-125%)		
Manganese	0.0500		0.433		0.475	mg/L		N/A	(75%-125%)		
Molybdenum	0.0500		0.00158		0.0553	mg/L		107	(75%-125%)		
Potassium	2.00		6.54		8.52	mg/L		99.4	(75%-125%)		
Selenium	0.0500	U	ND		0.0519	mg/L		102	(75%-125%)		
Sodium	2.00		40.0		41.4	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0496	mg/L		99.2	(75%-125%)		
QC1206020835 710955001 MSD											
Antimony	0.0500	U	ND		0.0511	mg/L	0.732	102	(0%-20%)		03/08/25 14:56
Arsenic	0.0500	U	ND		0.0520	mg/L	1.05	102	(0%-20%)		
Barium	0.0500		0.0523		0.104	mg/L	0.765	104	(0%-20%)		
Beryllium	0.0500	U	ND		0.0586	mg/L	3.13	117	(0%-20%)		
Boron	0.100		1.21		1.25	mg/L	5.03	N/A	(0%-20%)		03/08/25 16:45
Cadmium	0.0500	U	ND		0.0511	mg/L	0.611	102	(0%-20%)		03/08/25 14:56

QC Summary

Workorder: **710955**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2757683											
Calcium	2.00		87.6		90.1	mg/L	0.978	N/A	(0%-20%)	PRB	03/08/25 16:45
Chromium	0.0500	U	ND		0.0512	mg/L	2.63	102	(0%-20%)		03/08/25 14:56
Cobalt	0.0500	U	ND		0.0510	mg/L	3.05	102	(0%-20%)		
Iron	2.00		0.152		2.21	mg/L	4.24	103	(0%-20%)		
Lead	0.0500	U	ND		0.0507	mg/L	1.34	101	(0%-20%)		
Lithium	0.0500		0.0182		0.0723	mg/L	0.265	108	(0%-20%)		
Magnesium	2.00		20.8		22.8	mg/L	1.14	N/A	(0%-20%)		
Manganese	0.0500		0.433		0.483	mg/L	1.7	N/A	(0%-20%)		
Molybdenum	0.0500		0.00158		0.0549	mg/L	0.725	107	(0%-20%)		
Potassium	2.00		6.54		8.63	mg/L	1.27	105	(0%-20%)		
Selenium	0.0500	U	ND		0.0517	mg/L	0.299	102	(0%-20%)		
Sodium	2.00		40.0		42.1	mg/L	1.54	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0489	mg/L	1.3	97.9	(0%-20%)		
QC1206020836 710955001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/08/25 15:02

QC Summary

Workorder: **710955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2757683										
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	03/08/25 15:02
Barium		52.3		10.2	ug/L	2.44		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron		60.4		15.3	ug/L	26.4		(0%-20%)		03/08/25 16:47
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		03/08/25 15:02
Calcium		4380		880	ug/L	.476		(0%-20%)		03/08/25 16:47
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		03/08/25 15:02
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		152	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		18.2	J	3.41	ug/L	6.65		(0%-20%)		
Magnesium		20800		4260	ug/L	2.58		(0%-20%)		
Manganese		433		87.8	ug/L	1.33		(0%-20%)		
Molybdenum		1.58	J	0.299	ug/L	5.5		(0%-20%)		

QC Summary

Workorder: **710955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2757683										
Potassium		6540		1300	ug/L	.349		(0%-20%)	PRB	03/08/25 15:02
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		40000		7920	ug/L	1.11		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2760195										
QC1206025921 710955001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	03/06/25 12:02
QC1206025920 LCS										
Mercury 0.00200				0.00195	mg/L		97.6	(80%-120%)		03/06/25 11:58
QC1206025919 MB										
Mercury			U	ND	mg/L					03/06/25 11:57
QC1206025922 710955001 MS										
Mercury 0.00200	U	ND		0.00196	mg/L		97.9	(75%-125%)		03/06/25 12:07
QC1206025923 710955001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		03/06/25 12:08
Solids Analysis										
Batch 2758576										
QC1206022469 710907002 DUP										
Total Dissolved Solids		154		134	mg/L	13.9 *		(0%-5%)	RR4	03/05/25 10:29
QC1206022468 LCS										
Total Dissolved Solids 300				286	mg/L		95.3	(95%-105%)		03/05/25 10:29

QC Summary

Workorder: **710955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2758576										
QC1206022467 MB										
Total Dissolved Solids			U	ND	mg/L				RR4	03/05/25 10:29
Batch 2758577										
QC1206022474 710955017 DUP										
Total Dissolved Solids		276		280	mg/L	1.44		(0%-5%)	RR4	03/05/25 11:31
QC1206022473 LCS										
Total Dissolved Solids	300			285	mg/L		95	(95%-105%)		03/05/25 11:31
QC1206022472 MB										
Total Dissolved Solids			U	ND	mg/L					03/05/25 11:31
Titration and Ion Analysis										
Batch 2757662										
QC1206020782 LCS										
Alkalinity, Total as CaCO3	50.0			52.8	mg/L		106	(90%-110%)	JW2	02/27/25 16:04
QC1206020783 LCS										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L		103	(90%-110%)		02/27/25 16:06
QC1206020784 LCSD										
Alkalinity, Total as CaCO3	50.0			53.3	mg/L	0.943	107	(0%-20%)		02/27/25 16:05
QC1206020785 LCSD										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	0	103	(0%-20%)		02/27/25 16:07

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits

QC Summary

Workorder: **710955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
***** Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2757683

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2757682

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710955001	BRA-PZ-53D
710955002	BRA-BRGWC-38S
710955003	BRA-APE-FD-04
710955004	BRA-PZ-13S
710955005	BRA-BRGWC-33S
710955006	BRA-APE-FB-07
710955007	BRA-APE-EB-09
710955008	BRA-BRGWC-36S
710955009	BRA-PZ-70I
710955010	BRA-BRGWC-35S
710955011	BRA-APE-FD-05
710955012	BRA-APE-EB-10
710955013	BRA-BRGWC-37S
710955014	BRA-APE-FB-08
710955015	BRA-BRGWC-17S
710955016	BRA-BRGWC-34S
710955017	BRA-PZ-52D
1206020832	Method Blank (MB)**ICP-MS**
1206020833	Laboratory Control Sample (LCS)
1206020836	710955001(BRA-PZ-53DL) Serial Dilution (SD)
1206020834	710955001(BRA-PZ-53DS) Matrix Spike (MS)
1206020835	710955001(BRA-PZ-53DSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 710955001 (BRA-PZ-53D), 710955002 (BRA-BRGWC-38S), 710955005 (BRA-BRGWC-33S), 710955008 (BRA-BRGWC-36S), 710955009 (BRA-PZ-70I), 710955010 (BRA-BRGWC-35S), 710955011 (BRA-APE-FD-05), 710955015 (BRA-BRGWC-17S) and 710955016 (BRA-BRGWC-34S) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	710955								
	001	**002**	**005**	**008**	**009**	**010**	**011**	**015**	**016**
Boron	20X	20X	20X	20X	20X	20X	20X	1X	20X
Calcium	20X	1X	20X	1X	1X	20X	20X	20X	20X
Magnesium	1X	1X	20X	1X	1X	1X	1X	1X	1X
Manganese	1X	20X	20X	1X	1X	1X	20X	1X	20X
Sodium	1X	1X	20X	1X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2760195

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2760194

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710955001	BRA-PZ-53D
710955002	BRA-BRGWC-38S
710955003	BRA-APE-FD-04
710955004	BRA-PZ-13S
710955005	BRA-BRGWC-33S
710955006	BRA-APE-FB-07
710955007	BRA-APE-EB-09
710955008	BRA-BRGWC-36S
710955009	BRA-PZ-70I
710955010	BRA-BRGWC-35S
710955011	BRA-APE-FD-05
710955012	BRA-APE-EB-10
710955013	BRA-BRGWC-37S
710955014	BRA-APE-FB-08
710955015	BRA-BRGWC-17S
710955016	BRA-BRGWC-34S
710955017	BRA-PZ-52D
1206025919	Method Blank (MB)**CVAA**
1206025920	Laboratory Control Sample (LCS)
1206025923	710955001(BRA-PZ-53DL) Serial Dilution (SD)

1206025921	710955001(BRA-PZ-53DD) Sample Duplicate (DUP)
1206025922	710955001(BRA-PZ-53DS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2758449

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710955001	BRA-PZ-53D
710955002	BRA-BRGWC-38S
710955003	BRA-APE-FD-04
710955004	BRA-PZ-13S
710955005	BRA-BRGWC-33S
710955006	BRA-APE-FB-07
710955007	BRA-APE-EB-09
710955008	BRA-BRGWC-36S
710955009	BRA-PZ-70I
710955010	BRA-BRGWC-35S
710955011	BRA-APE-FD-05
710955012	BRA-APE-EB-10
710955013	BRA-BRGWC-37S
710955014	BRA-APE-FB-08
710955015	BRA-BRGWC-17S
710955016	BRA-BRGWC-34S
710955017	BRA-PZ-52D
1206022160	Method Blank (MB)
1206022161	Laboratory Control Sample (LCS)
1206022162	710955001(BRA-PZ-53D) Sample Duplicate (DUP)
1206022163	710955001(BRA-PZ-53D) Post Spike (PS)
1206022164	710996022(NonSDG) Sample Duplicate (DUP)
1206022165	710996022(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1206022162 (BRA-PZ-53DDUP), 1206022163 (BRA-PZ-53DPS), 710955001 (BRA-PZ-53D), 710955002 (BRA-BRGWC-38S), 710955003 (BRA-APE-FD-04), 710955004 (BRA-PZ-13S), 710955005 (BRA-BRGWC-33S), 710955008 (BRA-BRGWC-36S), 710955009 (BRA-PZ-70I), 710955010 (BRA-BRGWC-35S), 710955011 (BRA-APE-FD-05), 710955015 (BRA-BRGWC-17S), 710955016 (BRA-BRGWC-34S) and 710955017 (BRA-PZ-52D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	710955									
	001	**002**	**003**	**004**	**005**	**008**	**009**	**010**	**011**	**015**
Chloride	1X	1X	1X	1X	200X	1X	1X	1X	40X	1X
Sulfate	25X	25X	10X	10X	200X	25X	10X	25X	40X	25X

Analyte	710955	
	016	**017**
Chloride	40X	1X
Sulfate	40X	5X

Miscellaneous Information

Manual Integrations
Samples 1206022162 (BRA-PZ-53DDUP), 1206022163 (BRA-PZ-53DPS), 1206022164 (Non SDG 710996022DUP), 1206022165 (Non SDG 710996022PS), 710955001 (BRA-PZ-53D), 710955002 (BRA-BRGWC-38S), 710955003 (BRA-APE-FD-04), 710955004 (BRA-PZ-13S), 710955008 (BRA-BRGWC-36S), 710955010 (BRA-BRGWC-35S), 710955011 (BRA-APE-FD-05), 710955013 (BRA-BRGWC-37S), 710955015 (BRA-BRGWC-17S), 710955016 (BRA-BRGWC-34S) and 710955017 (BRA-PZ-52D) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2758576

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710955001	BRA-PZ-53D
1206022467	Method Blank (MB)
1206022468	Laboratory Control Sample (LCS)
1206022469	710907002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1206022469 (Non SDG 710907002DUP)	13.9* (0%-5%)

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2758577

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710955002	BRA-BRGWC-38S
710955003	BRA-APE-FD-04
710955004	BRA-PZ-13S
710955005	BRA-BRGWC-33S
710955006	BRA-APE-FB-07
710955007	BRA-APE-EB-09
710955008	BRA-BRGWC-36S
710955009	BRA-PZ-70I
710955010	BRA-BRGWC-35S
710955011	BRA-APE-FD-05
710955012	BRA-APE-EB-10
710955013	BRA-BRGWC-37S
710955014	BRA-APE-FB-08
710955015	BRA-BRGWC-17S
710955016	BRA-BRGWC-34S
710955017	BRA-PZ-52D
1206022472	Method Blank (MB)
1206022473	Laboratory Control Sample (LCS)
1206022474	710955017(BRA-PZ-52D) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the sample for approximate concentration prior to analysis. 710955005 (BRA-BRGWC-33S).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2757662

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710955001	BRA-PZ-53D
710955002	BRA-BRGWC-38S
710955003	BRA-APE-FD-04
710955004	BRA-PZ-13S
710955005	BRA-BRGWC-33S
710955006	BRA-APE-FB-07
710955007	BRA-APE-EB-09
710955008	BRA-BRGWC-36S
710955009	BRA-PZ-70I
710955010	BRA-BRGWC-35S
710955011	BRA-APE-FD-05
710955012	BRA-APE-EB-10
710955013	BRA-BRGWC-37S
710955014	BRA-APE-FB-08
710955015	BRA-BRGWC-17S
710955016	BRA-BRGWC-34S
710955017	BRA-PZ-52D
1206020782	Laboratory Control Sample (LCS)
1206020783	Laboratory Control Sample (LCS)
1206020784	Laboratory Control Sample Duplicate (LCSD)
1206020785	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: 710955 710993

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bostwick T. Cooke D. Johnson, J. May ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
BRA- PZ-53D	02/26/25	0936	G	N	WG	N	N	6	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2025S1
BRA- BRGWC-38S	02/26/25	1000	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- APE-FD-04	02/26/25		G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- PZ-13S	02/26/25	1008	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-33S	02/26/25	1126	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- APE-FB-07	02/26/25	1200	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA- APE-EB-09	02/26/25	1225	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-36S	02/26/25	1156	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- PZ-70I	02/26/25	1232	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-35S	02/26/25	1339	G	N	WG	N	N	6	✓	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/27/25	0826		02-27-2025	0826
2		2/27/25	1300		2/27/25	1300
3						

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

TAT Requested: Normal: x Rush: Specify: (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: S.Bonstead T.Bolse D.Johnson J.May ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	NI	NI	<-- Preservative Type (6)
BRA-APE-FD-05	02/26/25	—	G	N	WG	N	N	6	✓	✓	✓	✓			
BRA-APE-EB-16	02/26/25	1456	G	N	WQ	N	N	6	✓	✓	✓	✓			
BRA-BRGWC-37S	02/26/25	1517	G	N	WG	N	N	6	✓	✓	✓	✓			
BRA-APE-FB-08	02/26/25	1520	G	N	WQ	N	N	6	✓	✓	✓	✓			
BRA-BRGWC-17S	02/26/25	1545	G	N	WG	N	N	6	✓	✓	✓	✓			
BRA-BRGWC-34S	02/26/25	1643	G	N	WG	N	N	6	✓	✓	✓	✓			
BRA-PZ-52D	02/26/25	1516	G	N	WG	N	N	6	✓	✓	✓	✓			
BRA-															
BRA-															
BRA-															

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures 02-27-2025

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	2/27/25	0826	1	2/27/25	0826
2	2/27/25	1300	2	2/27/25	1300
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: *** Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **EX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 710996 711013

Client: GPCC	SDG/AR/COC/Work Order: 710955 710993	GEL PM:
Received By: QG	Date Received at GEL: 2/27/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
cooler 1	0c		6	0c	
2	0c		7	0c	
3	0c		8	0c	
4	0c		9	0c	
5	0c		10	0c	

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			~~Preserved per COC~~ request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 28 2025

☒ Continuation Form Required when selected

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW CONTINUATION FORM

Client: GPCC Received By: QG Date Received: 2/27/25 SDG/AR/COC/Work Order: _____

Tracking Number	Temp (C)	If over 6C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6C, check if samples do not require cold preservation (ie radiochem only).
Cooler 11	0°C				
12	0°C				
13	0°C				

Additional Notes:

PM (or PMA) review: Initials TJB Date FEB 28 2025 Page 1 of 1

List of current GEL Certifications as of 14 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	17 June 2025
To:	Courtney Collins
From:	Ashley Wilson
CC:	Matthew Richardson
	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – GEL Laboratories, LLC Work Order 709660, Revision 1**

SITE: Plant Branch CCR Groundwater Compliance Upgradient Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five groundwater samples collected 18 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709660001	BRA-BRGWA-5I
709660002	BRA-BRGWA-5S
709660003	BRA-BRGWA-2I

Laboratory IDs	Client IDs
709660004	BRA-BRGWA-2S
709660005	BRA-BRGWA-6S

The samples were received at 0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

709660: The laboratory reports were revised on 05/14/2025 to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs. The laboratory report was identified as 709660, Revision 1.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Blank
✓ Equipment Blank

- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blank at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Field blanks were not reported with the sample set.

1.8 Equipment Blank

Equipment blanks were not reported with the sample set.

1.9 Field Duplicate

Field duplicates were not reported with the sample set.

1.10 Serial Dilution

A batch serial dilution was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank

- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blank at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

A batch laboratory duplicate was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Field blanks were not reported with the sample set.

2.8 Equipment Blank

Equipment blanks were not reported with the sample set.

2.9 Field Duplicate

Field duplicates were not reported with the sample set.

2.10 Serial Dilution

A batch serial dilution was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

709660: The laboratory noted that BRA-BRGWA-5I, BRA-BRGWA-5S, BRA-BRGWA-2I, BRA-BRGWA-2S and BRA-BRGWA-6S were manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis. No qualifications were applied to the data, based on professional and technical judgment.

3.2 Holding Times

The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding time for TDS is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met for these analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS was reported for anions, using sample BRA-BRGWA-6S. The recovery results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for anions, using sample BRA-BRGWA-6S. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.7 Field Blank

Field blanks were not reported with the sample set.

3.8 Equipment Blank

Equipment blanks were not reported with the sample set.

3.9 Field Duplicate

Field duplicates were not reported with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	17 June 2025
To:	Courtney Collins
From:	Ashley Wilson
CC:	Matthew Richardson
	K. Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders 709658, Revision 1, 709770 Revision 1 and 710955, Revision 1**

SITE: Plant Branch CCR Groundwater Compliance Semiannual Monitoring AP-BCD & AP-E

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five groundwater samples, four equipment blanks, four field blanks and four field duplicate samples collected 18-19 and 26 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Total and Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the following documents, the pertinent methods referenced by the data package and professional and technical judgment:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709658001	BRA-BRGWC-47
709658002	BRA-PZ-74I
709658003	BRA-PZ-75I
709658004	BRA-APBCD-FB-01
709658005	BRA-APBCD-EB-04
709770001	BRA-APBCD-FD-01
709770002	BRA-BRGWA-23S
709770003	BRA-BRGWC-25I
709770004	BRA-BRGWC-29I
709770005	BRA-BRGWC-52I
709770006	BRA-PZ-63I
709770007	BRA-PZ-68D
709770008	BRA-APBCD-FB-02
709770009	BRA-BRGWC-27I
709770010	BRA-BRGWC-30I
709770011	BRA-BRGWC-32S
709770012	BRA-BRGWC-44
709770013	BRA-BRGWC-45
709770014	BRA-APBCD-EB-05

Laboratory IDs	Client IDs
709770015	BRA-APBCD-FD-02
710955001	BRA-PZ-53D
710955002	BRA-BRGWC-38S
710955003	BRA-APE-FD-04
710955004	BRA-PZ-13S
710955005	BRA-BRGWC-33S
710955006	BRA-APE-FB-07
710955007	BRA-APE-EB-09
710955008	BRA-BRGWC-36S
710955009	BRA-PZ-70I
710955010	BRA-BRGWC-35S
710955011	BRA-APE-FD-05
710955012	BRA-APE-EB-10
710955013	BRA-BRGWC-37S
710955014	BRA-APE-FB-08
710955015	BRA-BRGWC-17S
710955016	BRA-BRGWC-34S
710955017	BRA-PZ-52D

The samples were received at 0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

709658, 709770 and 710955: The laboratory reports were revised on 05/14/2025 to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs. The laboratory report was identified as 709658, Revision 1, 709770 Revision 1 and 710955, Revision 1.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
⊗ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
⊗ Field Duplicate
✓ Serial Dilution
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted that the contract required detection limit (CRDL) for calcium did not meet the laboratory specified acceptance criteria. Since the calcium results in the associated samples were significantly greater than the CRDL and based on professional and technical judgement, no qualifications were applied to the data.

The laboratory also noted that for the Inductively Coupled Plasma – Mass Spectrometry analysis, the Interference Check Sample (ICSA) solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blanks at or above the method detection limits (MDLs), with the following exceptions.

Boron (0.00724 mg/L) and selenium (0.00168 mg/L) were detected in the method blank in batch 2753772 at estimated concentrations greater than the MDL and less than the reporting limit (RL). Therefore, the estimated concentrations of boron and selenium were U qualified as not detected above the RL, and the concentrations greater than the RL and less than ten times the blank concentrations were J+ qualified as estimated with a high bias. Concentrations greater than ten times the blank concentrations were not qualified. The final qualification for the boron concentration in field duplicate BRA-APE-FD-04 was UJ qualified as estimated less than the MDL due to the field duplicate pair noncalculable RPD and blank contamination.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BRA-APBCD-EB-05	Selenium	0.00249	J	0.00500	U	BC1
BRA-APBCD-FB-02	Selenium	0.00189	J	0.00500	U	BC1
BRA-APBCD-FD-01	Selenium	0.00447	J	0.00500	U	BC1
BRA-APBCD-FD-02	Selenium	0.00191	J	0.00500	U	BC1
BRA-BRGWA-23S	Selenium	0.00240	J	0.00500	U	BC1
BRA-BRGWC-25I	Selenium	0.00217	J	0.00500	U	BC1
BRA-BRGWC-27I	Selenium	0.00309	J	0.00500	U	BC1
BRA-BRGWC-29I	Selenium	0.00450	J	0.00500	U	BC1
BRA-BRGWC-30I	Selenium	0.00316	J	0.00500	U	BC1
BRA-BRGWC-44	Selenium	0.00202	J	0.00500	U	BC1
BRA-BRGWC-45	Selenium	0.00237	J	0.00500	U	BC1
BRA-BRGWC-52I	Selenium	0.00198	J	0.00500	U	BC1
BRA-PZ-63I	Selenium	0.00262	J	0.00500	U	BC1
BRA-PZ-68D	Selenium	0.00205	J	0.00500	U	BC1
BRA-APBCD-EB-05	Boron	0.0126	J	0.0150	U	BC1
BRA-APBCD-FB-02	Boron	0.0133	J	0.0150	U	BC1
BRA-BRGWA-23S	Boron	0.0393	NA	0.0393	J+	BC1
BRA-BRGWC-45	Boron	0.0537	NA	0.0537	J+	BC1

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported, using samples BRA-BRGWC-47, BRA-BRGWA-23S and BRA-PZ-53D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Laboratory duplicates were not reported for metals.

1.7 Field Blank

Four field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08, were collected with the sample set. Metals were not detected in the field blanks at or above the MDLs, with the following exceptions.

709658: Boron (0.0122 mg/L) and magnesium (0.0216 mg/L) were detected in field blank BRA-APBCD-FB-01 at estimated concentrations greater than the MDLs and less than the RLs. Since the boron concentration in sample BRA-BRGWA-23S was previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data. Additionally, the other concentrations of boron and magnesium in the associated samples were greater than ten times the field blank concentrations, and based on technical and professional judgement, no qualifications were applied to the data.

709770: Boron (0.0133 mg/L) and selenium (0.00189 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in field blank BRA-APBCD-FB-02. Since the boron and selenium concentrations in the equipment blank were previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

710955: Boron (0.0516 mg/L) was detected at a concentration greater than the RL and manganese (0.00365 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-07. Therefore, the estimated concentrations of boron and manganese were U qualified as not detected above the RL, and the concentrations greater than the RL and less than ten times the blank concentrations were J+ qualified as estimated with a high bias. Concentrations greater than ten times the blank concentrations were not qualified.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-APE-EB-09	Boron	0.0116	J	0.0150	U	BFH
BRA-APE-EB-10	Boron	0.00750	J	0.0150	U	BFH
BRA-APE-FD-04	Manganese	0.00192	J	0.00500	U	BFH
BRA-APE-FD-04	Boron	0.0397	NA	0.0397	U	BFH
BRA-BRGWC-17S	Manganese	0.00225	J	0.00500	U	BFH
BRA-BRGWC-17S	Boron	0.0756	NA	0.0756	J+	BFH
BRA-BRGWC-35S	Manganese	0.0107	NA	0.0107	J+	BFH
BRA-BRGWC-36S	Manganese	0.00188	J	0.00500	U	BFH
BRA-BRGWC-37S	Manganese	0.00183	J	0.00500	U	BFH
BRA-BRGWC-37S	Boron	0.00753	J	0.0150	U	BFH
BRA-PZ-13S	Manganese	0.00179	J	0.00500	U	BFH
BRA-PZ-13S	Boron	0.0140	J	0.0150	U	BFH
BRA-PZ-52D	Manganese	0.00289	J	0.00500	U	BFH
BRA-PZ-52D	Boron	0.0842	NA	0.0842	J+	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

1.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

709770: Boron (0.0126 mg/L), selenium (0.00249 mg/L) and potassium (0.0903 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in equipment

blank BRA-APBCD-EB-05. Since the boron and selenium concentrations in the equipment blank were previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data. Since the concentrations of potassium in the associated samples was greater than ten times the equipment blank concentration, and based on technical and professional judgement, no qualifications were applied to the data.

710955: Boron (0.0116 mg/L and 0.00750 mg/L) was detected at estimated concentrations greater than the MDLs and less than the RLs in equipment blanks BRA-APE-EB-09 and BRA-APE-EB-10, respectively. Since the boron concentrations in the equipment blanks BRA-APE-EB-09 and BRA-APE-EB-10 were previously qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.9 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < RL] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively, with the following exceptions.

709770: The RPD of boron in field duplicate pair BRA-APBCD-FD-01/BRA-BRGWC-29I was greater than 20%. Therefore, the concentrations of boron in the field duplicate pair were J qualified as estimated.

710955: Beryllium was detected in field duplicate, BRA-APE-FD-05, at an estimated concentration greater than the MDL and less than the RL and not detected in parent sample, BRA-BRGWC-34S, resulting in a noncalculable RPD between the results. Therefore, based on professional and technical judgment, the concentration of beryllium was J qualified as estimated and the nondetect result was UJ qualified as estimated less than the RL in the field duplicate pair.

Boron was detected in field duplicate, BRA-APE-FD-04, at concentration greater than the RL and detected in parent sample, BRA-BRGWC-34S, at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD between the results. Therefore, based on professional and technical judgment, the concentrations of boron in the field duplicate pair were J qualified as estimated. The final qualification for the boron concentration in field duplicate BRA-APE-FD-04 was UJ qualified as estimated less than the MDL due to the field duplicate pair noncalculable RPD and blank contamination.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
BRA-APBCD-FD-01	Boron	1.09	NA	35	1.09	J	RPDF1
BRA-BRGWC-29I	Boron	1.56	NA		1.56	J	RPDF1
BRA-APE-FD-05	Beryllium	0.000210	J	NC	0.000210	J	RPDF2
BRA-BRGWC-34S	Beryllium	0.000500	U		0.000500	UJ	RPDF2
BRA-APE-FD-04	Boron	0.0397	NA	NC	0.0397	J	RPDF2
BRA-PZ-13S	Boron	0.0140	J		0.0140	J	RPDF2

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable

NC-not calculable

1.10 Serial Dilution

Three sample set specific serial dilutions were reported for metals using samples BRA-BRGWC-47, BRA-BRGWA-23S and BRA-PZ-53D. The percent difference (%D) results were within the method specified acceptance criteria, with the following exceptions.

709770: The %D for boron in the serial dilution using sample BRA-BRGWA-23S was high and outside of the laboratory specified acceptance criteria. Since the boron concentration in the initial analysis of sample BRA-BRGWA-23S was less than fifty times the MDL, no qualifications were applied to the data.

710955: The %D for boron in the serial dilution using sample BRA-PZ-53D was high and outside of the laboratory specified acceptance criteria. Since the boron concentration in the initial analysis of sample BRA-PZ-53D was less than fifty times the MDL, no qualifications were applied to the data.

1.11 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ⊗ Field Duplicate
- ✓ Serial Dilution
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike

MSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS was reported using sample BRA-PZ-53D. The recovery results were within the laboratory specified acceptance criteria.

Batch MSs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported using sample BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Field Blank

Four field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08, were collected with the sample set. Mercury was not detected in the field blanks at or above the MDL.

2.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively, with the following exceptions.

709770: Mercury was detected at a concentration greater than the RL in sample BRA-BRGWC-29I and not detected in field duplicate BRA-APBCD-FD-01, resulting in a noncalculable RPD between the results. Therefore, the nondetect mercury result in BRA-APBCD-FD-01 was UJ qualified as estimated below the RL and the detected concentration in BRA-BRGWC-29I was J qualified as estimated.

710955: Mercury was detected at an estimated concentration greater than the MDL and less than the RL in sample BRA-BRGWC-34S and not detected in field duplicate BRA-APE-FD-05, resulting in a noncalculable RPD between the results. Since the difference between the results were within the RL of each other, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/l)	Laboratory Flag	RPD	Validation Result (mg/l)	Validation Qualifier	Reason Code
BRA-APBCD-FD-01	Mercury	0.000200	U	NC	0.000200	UJ	RPDF2
BRA-BRGWC-29I	Mercury	0.000384	NA		0.000384	J	RPDF2

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value
NA-not applicable
NC-not calculable

2.10 Serial Dilution

One sample set specific serial dilution was performed using sample BRA-PZ-53D. The %D results were within the method specified acceptance criteria.

Batch serial dilutions were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.11 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.12 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, TDS by SM 2540C, total sulfide by SM 4500-S2-D and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

709658, 709770 and 710955: The laboratory noted that BRA-PZ-74I, BRA-PZ-75I, BRA-BRGWA-23S, BRA-BRGWC-52I, BRA-PZ-63I, BRA-PZ-68D, BRA-BRGWC-27I, BRA-BRGWC-32S, BRA-BRGWC-44, BRA-BRGWC-45, BRA-APBCD-FD-02, BRA-PZ-53D, BRA-BRGWC-38S, BRA-APE-FD-04, BRA-PZ-13S, BRA-BRGWC-36S, BRA-BRGWC-35S, BRA-APE-FD-05, BRA-BRGWC-37S, BRA-BRGWC-17S, BRA-BRGWC-34S and BRA-PZ-52D were manually integrated to correctly position the baseline as set in the calibration standards for the anion analysis. No qualifications were applied to the data based on professional and technical judgment.

3.2 Holding Times

The holding time for the fluoride, chloride and sulfate analyses of a water sample is 28 days from sample collection to analysis. The holding time for TDS is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding times were met for these analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MSs were reported for anions, using samples BRA-BRGWC-44 and BRA-PZ-53D. The recovery results were within the laboratory specified acceptance criteria.

Batch MSs were also reported for anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCSD pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for anions, using samples BRA-BRGWC-44 and BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for TDS, using sample BRA-PZ-52D. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for TDS and anions. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

3.7 Field Blank

Four field blanks, BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08, were collected with the sample set. Wet chemistry parameters were not detected in the field blanks at or above the MDLs, with the following exceptions.

710955: Sulfate (0.269 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in field blank BRA-APE-FB-07. Therefore, the estimated concentration of sulfate in sample BRA-BRGWC-37S was U qualified as not detected above the RL. Concentrations greater than ten times the blank concentrations were not qualified.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BRA-BRGWC-37S	Sulfate	0.348	J	0.400	U	BFH

mg/L- milligram per liter
J-the result is less than RL but greater than the MDL and the concentration is an approximate value

3.8 Equipment Blank

Four equipment blanks, BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10, were collected with the sample set. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

710955: Chloride (0.192 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in equipment blank BRA-APE-EB-09. Since the concentrations of chloride in the associated samples were detected at concentrations greater than ten times the equipment blank contamination and based on professional and technical judgment, no qualifications were applied to the data.

3.9 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05 were collected with the sample set. Acceptable precision [RPD < 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 17, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds Upgradient-Radiochemistry
Work Order: 709661

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 19, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
709661001	BRA-BRGWA-5I	Ground Water	02/18/25 10:02	02/19/25 13:10
709661002	BRA-BRGWA-5S	Ground Water	02/18/25 09:59	02/19/25 13:10
709661003	BRA-BRGWA-2I	Ground Water	02/18/25 10:30	02/19/25 13:10
709661004	BRA-BRGWA-2S	Ground Water	02/18/25 11:25	02/19/25 13:10
709661005	BRA-BRGWA-6S	Ground Water	02/18/25 13:05	02/19/25 13:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	17-MAR-2025
EPA 903.1 Modified	12-MAR-2025
EPA 904.0/SW846 9320 Modified	15-MAR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 709661 GEL Work Order: 709661

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-5I
Sample ID: 709661001
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.399	+/-0.715	1.28	+/-0.722	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.475	+/-0.724	1.28	+/-0.731		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0763	+/-0.111	0.195	+/-0.113	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	83	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-5S
Sample ID: 709661002
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.335	+/-1.21	2.18	+/-1.21	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.30	+/-1.24	2.18	+/-1.26		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.968	+/-0.289	0.165	+/-0.362	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	80.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-2I Project: GPCC00325
Sample ID: 709661003 Client ID: GPCC002
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.932	+/-1.04	1.73	+/-1.06	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.02	+/-1.05	1.73	+/-1.08		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0840	+/-0.184	0.340	+/-0.185	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	80.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-2S
Sample ID: 709661004
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.372	+/-0.980	1.78	+/-0.985	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.747	+/-1.00	1.78	+/-1.01		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.376	+/-0.216	0.272	+/-0.231	1.00	pCi/L			RS2	03/12/25	0958	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	77.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 17, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsUpgradient-Radiochemistry

Client Sample ID: BRA-BRGWA-6S
Sample ID: 709661005
Matrix: WG
Collect Date: 18-FEB-25
Receive Date: 19-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.57	+/-1.01	1.51	+/-1.09	3.00	pCi/L			DH1	03/15/25	1146	2753845	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.33	+/-1.05	1.51	+/-1.14		pCi/L		1	NXL1	03/17/25	1223	2753850	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.753	+/-0.290	0.269	+/-0.325	1.00	pCi/L			RS2	03/12/25	1030	2754859	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2753845	79.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2753850

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2753845

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S
1206013339	Method Blank (MB)
1206013340	709659001(BRA-BRGWC-47) Sample Duplicate (DUP)
1206013341	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2754859

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S
1206015311	Method Blank (MB)
1206015312	708930001(NonSDG) Sample Duplicate (DUP)
1206015313	708930001(NonSDG) Matrix Spike (MS)
1206015314	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Aliquot Reduced
1206015312 (Non SDG 708930001DUP) Aliquot was reduced due to limited sample volume. Limited volume due to only having one bottle of the sample. 1206015312 (Non SDG 708930001DUP).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **709661**

Report Date: March 17, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2753845										
QC1206013340 709659001 DUP										
Radium-228	U	1.43		1.83	pCi/L	24		(0% - 100%)	DH1	03/15/2511:45
	Uncert:	+/-1.57		+/-1.17						
	TPU:	+/-1.61		+/-1.26						
QC1206013341 LCS										
Radium-228	84.0			67.4	pCi/L		80.2	(75%-125%)	DH1	03/15/2511:45
	Uncert:			+/-4.47						
	TPU:			+/-17.7						
QC1206013339 MB										
Radium-228			U	0.934	pCi/L				DH1	03/15/2511:45
	Uncert:			+/-1.66						
	TPU:			+/-1.68						
Rad Ra-226										
Batch 2754859										
QC1206015312 708930001 DUP										
Radium-226	U	0.118	U	0.179	pCi/L	0		N/A	RS2	03/12/2510:30
	Uncert:	+/-0.123		+/-0.185						
	TPU:	+/-0.124		+/-0.189						
QC1206015314 LCS										
Radium-226	27.2			25.4	pCi/L		93.4	(75%-125%)	RS2	03/12/2510:30
	Uncert:			+/-1.49						
	TPU:			+/-4.71						
QC1206015311 MB										
Radium-226			U	0.104	pCi/L				RS2	03/12/2510:30
	Uncert:			+/-0.147						
	TPU:			+/-0.148						
QC1206015313 708930001 MS										
Radium-226	138 U	0.118		127	pCi/L		92.1	(75%-125%)	RS2	03/12/2510:30
	Uncert:	+/-0.123		+/-7.20						
	TPU:	+/-0.124		+/-29.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **709661**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

709660
709661

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - Upgradient | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bentley, D. Johnson, T. Goble, ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
BRA- BR GWA-5I	02/18/25	1002	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BR GWA-5S	02/18/25	0959	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWA-2I	02/18/25	1030	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWA-2S	02/18/25	1125	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA- BRGWA-6S	02/18/25	1305	G	N	WG	N	N	6	✓	✓	✓	✓	
BRA-													
BRA-													
BRA-													
BRA-													
BRA-													

Comments
Note: extra sample is required for sample specific QC
Task_Code: BRA-CCR-ASSMT-2025S1

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/19/25	0810		2/19/25	0810
2		2/19/25	1310		2/19/25	1310
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

709660 709658
709661 709659

Client: GPCC	SDG/AR/COC/Work Order:	GEL PM:
Received By: QG	Date Received at GEL: 2/19/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0°c				
2	0°c				
3	0°c				
4	0°c				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials TTB Date FEB 20 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 17 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 28, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Branch Ash Ponds Relog: Radiochem
Work Order: 710993

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 27, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
710993001	BRA-PZ-53D	Ground Water	02/26/25 09:36	02/27/25 13:00
710993002	BRA-BRGWC-38S	Ground Water	02/26/25 10:00	02/27/25 13:00
710993003	BRA-APE-FD-04	Ground Water	02/26/25 12:00	02/27/25 13:00
710993004	BRA-PZ-13S	Ground Water	02/26/25 10:08	02/27/25 13:00
710993005	BRA-BRGWC-33S	Ground Water	02/26/25 11:26	02/27/25 13:00
710993006	BRA-APE-FB-07	Water	02/26/25 12:00	02/27/25 13:00
710993007	BRA-APE-EB-09	Water	02/26/25 12:25	02/27/25 13:00
710993008	BRA-BRGWC-36S	Ground Water	02/26/25 11:56	02/27/25 13:00
710993009	BRA-PZ-70I	Ground Water	02/26/25 12:32	02/27/25 13:00
710993010	BRA-BRGWC-35S	Ground Water	02/26/25 13:39	02/27/25 13:00
710993011	BRA-APE-FD-05	Ground Water	02/26/25 12:00	02/27/25 13:00
710993012	BRA-APE-EB-10	Water	02/26/25 14:58	02/27/25 13:00
710993013	BRA-BRGWC-37S	Ground Water	02/26/25 15:17	02/27/25 13:00
710993014	BRA-APE-FB-08	Water	02/26/25 15:20	02/27/25 13:00
710993015	BRA-BRGWC-17S	Ground Water	02/26/25 15:45	02/27/25 13:00
710993016	BRA-BRGWC-34S	Ground Water	02/26/25 16:43	02/27/25 13:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

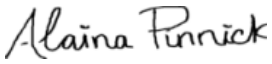
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	28-MAR-2025
EPA 903.1 Modified	24-MAR-2025
EPA 903.1 Modified	26-MAR-2025
EPA 904.0/SW846 9320 Modified	28-MAR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0006
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC002 Georgia Power Company

Client SDG: 710993 GEL Work Order: 710993

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-PZ-53D
Sample ID: 710993001
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.96	+/-1.33	1.58	+/-1.70	3.00	pCi/L			HH3	03/28/25	0751	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.25	+/-1.37	1.58	+/-1.73		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.285	+/-0.328	0.501	+/-0.331	1.00	pCi/L			MJ2	03/24/25	1028	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	80.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-BRGWC-38S
Sample ID: 710993002
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.13	+/-1.41	2.02	+/-1.63	3.00	pCi/L			HH3	03/28/25	0754	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.64	+/-1.46	2.02	+/-1.68		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.504	+/-0.406	0.555	+/-0.417	1.00	pCi/L			MJ2	03/24/25	1028	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	88.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-APE-FD-04 Project: GPCC00325
Sample ID: 710993003 Client ID: GPCC002
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.48	+/-1.39	2.09	+/-1.53	3.00	pCi/L			HH3	03/28/25	0752	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.70	+/-1.52	2.09	+/-1.67		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.22	+/-0.611	0.619	+/-0.653	1.00	pCi/L			MJ2	03/24/25	1028	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	86.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-PZ-13S
Sample ID: 710993004
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.50	+/-1.14	1.51	+/-1.32	3.00	pCi/L			HH3	03/28/25	0752	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.29	+/-1.23	1.51	+/-1.41		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.788	+/-0.450	0.369	+/-0.481	1.00	pCi/L			MJ2	03/24/25	1028	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	79.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-BRGWC-33S
Sample ID: 710993005
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.70	+/-1.35	1.85	+/-1.67	3.00	pCi/L			HH3	03/28/25	0754	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.05	+/-1.39	1.85	+/-1.70		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.355	+/-0.316	0.377	+/-0.321	1.00	pCi/L			MJ2	03/24/25	1045	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	95	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-APE-FB-07 Project: GPCC00325
Sample ID: 710993006 Client ID: GPCC002
Matrix: WQ
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.37	+/-1.38	1.59	+/-1.82	3.00	pCi/L			HH3	03/28/25	0754	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.51	+/-1.41	1.59	+/-1.83		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.134	+/-0.246	0.472	+/-0.248	1.00	pCi/L			MJ2	03/24/25	1045	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	80.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-APE-EB-09 Project: GPCC00325
Sample ID: 710993007 Client ID: GPCC002
Matrix: WQ
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.26	+/-1.16	1.64	+/-1.31	3.00	pCi/L			HH3	03/28/25	0752	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.34	+/-1.19	1.64	+/-1.33		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0785	+/-0.243	0.552	+/-0.243	1.00	pCi/L			MJ2	03/24/25	1045	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	79.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-BRGWC-36S
Sample ID: 710993008
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.03	+/-1.34	1.62	+/-1.72	3.00	pCi/L			HH3	03/28/25	0752	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.50	+/-1.40	1.62	+/-1.76		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.464	+/-0.379	0.466	+/-0.391	1.00	pCi/L			MJ2	03/24/25	1045	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	82.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-PZ-70I
Sample ID: 710993009
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.87	+/-1.18	1.79	+/-1.28	3.00	pCi/L			HH3	03/28/25	0755	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.41	+/-1.28	1.79	+/-1.38		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.535	+/-0.517	0.772	+/-0.524	1.00	pCi/L			MJ2	03/24/25	1045	2758589	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	81.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-BRGWC-35S
Sample ID: 710993010
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.647	+/-0.872	1.50	+/-0.889	3.00	pCi/L			HH3	03/28/25	0755	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.29	+/-1.13	1.50	+/-1.23		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.64	+/-0.725	0.454	+/-0.851	1.00	pCi/L			MJ2	03/26/25	0839	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	77.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-APE-FD-05
Sample ID: 710993011
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.02	+/-1.33	1.69	+/-1.56	3.00	pCi/L			HH3	03/28/25	0752	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.31	+/-1.54	1.69	+/-1.87		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.29	+/-0.767	0.438	+/-1.04	1.00	pCi/L			MJ2	03/26/25	0839	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	67.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-APE-EB-10 Project: GPCC00325
Sample ID: 710993012 Client ID: GPCC002
Matrix: WQ
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.70	+/-1.37	2.00	+/-1.55	3.00	pCi/L			HH3	03/28/25	0752	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.92	+/-1.47	2.00	+/-1.65		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.22	+/-0.536	0.347	+/-0.571	1.00	pCi/L			MJ2	03/26/25	0839	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	84.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-BRGWC-37S
Sample ID: 710993013
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.39	+/-1.39	1.54	+/-1.81	3.00	pCi/L			HH3	03/28/25	0755	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.37	+/-1.46	1.54	+/-1.88		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.979	+/-0.438	0.451	+/-0.496	1.00	pCi/L			MJ2	03/26/25	0839	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	75.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-APE-FB-08 Project: GPCC00325
Sample ID: 710993014 Client ID: GPCC002
Matrix: WQ
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.62	+/-1.24	1.64	+/-1.43	3.00	pCi/L			HH3	03/28/25	0755	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.84	+/-1.28	1.64	+/-1.45		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.220	+/-0.285	0.479	+/-0.290	1.00	pCi/L			MJ2	03/26/25	0839	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	66.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-BRGWC-17S
Sample ID: 710993015
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.45	+/-1.14	1.52	+/-1.31	3.00	pCi/L			HH3	03/28/25	0755	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.67	+/-1.35	1.52	+/-1.65		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.22	+/-0.731	0.334	+/-0.995	1.00	pCi/L			MJ2	03/26/25	0839	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	79.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-BRGWC-34S
Sample ID: 710993016
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.02	+/-1.26	1.65	+/-1.49	3.00	pCi/L			HH3	03/28/25	0755	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.95	+/-1.40	1.65	+/-1.64		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.93	+/-0.616	0.479	+/-0.687	1.00	pCi/L			MJ2	03/26/25	0839	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 28, 2025

Contact: Joju Abraham

Project: Plant Branch Ash PondsRelog: Radiochem

Client Sample ID: BRA-PZ-52D
Sample ID: 710993017
Matrix: WG
Collect Date: 26-FEB-25
Receive Date: 27-FEB-25
Collector: Client

Project: GPCC00325
Client ID: GPCC002

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.79	+/-1.24	1.70	+/-1.44	3.00	pCi/L			HH3	03/28/25	0752	2757813	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.82	+/-1.31	1.70	+/-1.51		pCi/L		1	NXL1	03/28/25	0926	2757827	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.03	+/-0.432	0.267	+/-0.460	1.00	pCi/L			MJ2	03/26/25	0915	2758590	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2757813	83.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2757827

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710993001	BRA-PZ-53D
710993002	BRA-BRGWC-38S
710993003	BRA-APE-FD-04
710993004	BRA-PZ-13S
710993005	BRA-BRGWC-33S
710993006	BRA-APE-FB-07
710993007	BRA-APE-EB-09
710993008	BRA-BRGWC-36S
710993009	BRA-PZ-70I
710993010	BRA-BRGWC-35S
710993011	BRA-APE-FD-05
710993012	BRA-APE-EB-10
710993013	BRA-BRGWC-37S
710993014	BRA-APE-FB-08
710993015	BRA-BRGWC-17S
710993016	BRA-BRGWC-34S
710993017	BRA-PZ-52D

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2757813

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710993001	BRA-PZ-53D
710993002	BRA-BRGWC-38S
710993003	BRA-APE-FD-04
710993004	BRA-PZ-13S
710993005	BRA-BRGWC-33S

710993006	BRA-APE-FB-07
710993007	BRA-APE-EB-09
710993008	BRA-BRGWC-36S
710993009	BRA-PZ-70I
710993010	BRA-BRGWC-35S
710993011	BRA-APE-FD-05
710993012	BRA-APE-EB-10
710993013	BRA-BRGWC-37S
710993014	BRA-APE-FB-08
710993015	BRA-BRGWC-17S
710993016	BRA-BRGWC-34S
710993017	BRA-PZ-52D
1206021060	Method Blank (MB)
1206021061	710993001(BRA-PZ-53D) Sample Duplicate (DUP)
1206021062	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Samples were re-eluted and recounted due to low recovery. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2758589

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710993001	BRA-PZ-53D
710993002	BRA-BRGWC-38S
710993003	BRA-APE-FD-04
710993004	BRA-PZ-13S
710993005	BRA-BRGWC-33S
710993006	BRA-APE-FB-07
710993007	BRA-APE-EB-09
710993008	BRA-BRGWC-36S
710993009	BRA-PZ-70I
1206022518	Method Blank (MB)
1206022519	710810001(NonSDG) Sample Duplicate (DUP)
1206022520	710810001(NonSDG) Matrix Spike (MS)
1206022521	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1206022520 (Non SDG 710810001MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2758590

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
710993010	BRA-BRGWC-35S
710993011	BRA-APE-FD-05
710993012	BRA-APE-EB-10
710993013	BRA-BRGWC-37S
710993014	BRA-APE-FB-08
710993015	BRA-BRGWC-17S
710993016	BRA-BRGWC-34S
710993017	BRA-PZ-52D
1206022522	Method Blank (MB)
1206022523	710993010(BRA-BRGWC-35S) Sample Duplicate (DUP)
1206022524	710993010(BRA-BRGWC-35S) Matrix Spike (MS)
1206022525	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1206022523 (BRA-BRGWC-35SDUP)	Radium-226	RPD 24.1* (0.00%-20.00%) RER 0.985 (0-3)

Miscellaneous Information

Additional Comments
The matrix spike, 1206022524 (BRA-BRGWC-35SMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **710993**

Report Date: March 28, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2757813										
QC1206021061 710993001 DUP										
Radium-228		3.96		3.38	pCi/L	15.9		(0% - 100%)	HH3	03/28/2507:51
	Uncert:	+/-1.33		+/-1.36						
	TPU:	+/-1.70		+/-1.63						
QC1206021062 LCS										
Radium-228	81.4			88.8	pCi/L		109	(75%-125%)	HH3	03/28/2507:51
	Uncert:			+/-5.34						
	TPU:			+/-24.1						
QC1206021060 MB										
Radium-228			U	1.83	pCi/L				HH3	03/28/2507:51
	Uncert:			+/-1.30						
	TPU:			+/-1.39						
Rad Ra-226										
Batch 2758589										
QC1206022519 710810001 DUP										
Radium-226	U	0.487	U	0.397	pCi/L	0		N/A	MJ2	03/24/2511:04
	Uncert:	+/-0.397		+/-0.354						
	TPU:	+/-0.413		+/-0.363						
QC1206022521 LCS										
Radium-226	27.2			27.6	pCi/L		101	(75%-125%)	MJ2	03/24/2511:04
	Uncert:			+/-2.50						
	TPU:			+/-5.48						
QC1206022518 MB										
Radium-226			U	-0.140	pCi/L				MJ2	03/24/2511:04
	Uncert:			+/-0.217						
	TPU:			+/-0.217						
QC1206022520 710810001 MS										
Radium-226	134 U	0.487		102	pCi/L		76.3	(75%-125%)	MJ2	03/24/2511:04
	Uncert:	+/-0.397		+/-12.2						
	TPU:	+/-0.413		+/-19.2						
Batch 2758590										
QC1206022523 710993010 DUP										
Radium-226		2.64		2.07	pCi/L	24.1*		(0%-20%)	MJ2	03/26/2510:18
	Uncert:	+/-0.725		+/-0.614						
	TPU:	+/-0.851		+/-0.748						
QC1206022525 LCS										
Radium-226	27.3			25.6	pCi/L		93.9	(75%-125%)	MJ2	03/26/2510:18
	Uncert:			+/-2.39						
	TPU:			+/-5.02						
QC1206022522 MB										
Radium-226			U	0.237	pCi/L				MJ2	03/26/2509:33

QC Summary

Workorder: **710993**

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226											
Batch	2758590										
		Uncert:			+/-0.257						
		TPU:			+/-0.261						
QC1206022524	710993010 MS										
Radium-226		133	2.64		124	pCi/L		91.5	(75%-125%)	MJ2	03/26/2510:18
		Uncert:	+/-0.725		+/-10.5						
		TPU:	+/-0.851		+/-31.1						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

QC Summary

Workorder: **710993**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

710955
710993

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Branch Ash Ponds - E
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: J. Bostwick T. Cooke D. Johnson, J. Mayl ACC
Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
BRA- PZ-53D	02/26/25	0936	G	N	WG	N	N	6	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2025S1
BRA- BRGWC-38S	02/26/25	1000	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- APE-FD-04	02/26/25		G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- PZ-13S	02/26/25	1008	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-33S	02/26/25	1126	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- APE-FB-07	02/26/25	1200	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA- APE-EB-09	02/26/25	1225	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-36S	02/26/25	1156	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- PZ-70I	02/26/25	1232	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA- BRGWC-35S	02/26/25	1339	G	N	WG	N	N	6	✓	✓	✓	✓		

Chain of Custody Signatures

02-27-2025

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/27/25	0826	Rodrigo Sheffield		0826
2	Rodrigo Sheffield		1300		2/27/25	1300
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0006

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116

Project/Site Name: Plant Branch Ash Ponds - E | Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: S.Barnard T.Bobie D.Johnson J.May ACC | Send Results To: SCS & Geosyntec Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm/dd/yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Total, Carb, & Bicarb Alk SM 2320B	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
BRA-APE-FD-05	02/26/25		G	N	WG	N	N	6	✓	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: BRA-CCR-ASSMT-2025S1
BRA-APE-EB-10	02/26/25	1456	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA-BRGWC-37S	02/26/25	1517	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-APE-FB-08	02/26/25	1520	G	N	WQ	N	N	6	✓	✓	✓	✓		
BRA-BRGWC-17S	02/26/25	1545	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-BRGWC-34S	02/26/25	1643	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-PZ-52D	02/26/25	1516	G	N	WG	N	N	6	✓	✓	✓	✓		
BRA-														
BRA-														
BRA-														

Chain of Custody Signatures 02-27-2025

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		2/27/25	0826			0826
2		2/27/25	1300		2/27/25	1300
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,Fe,Mg,Mn,K,Na,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 710996, 711013

Client: GPCC | SDG/AR/COC/Work Order: 710955, 710993 | GEL PM:

Received By: QG | Date Received at GEL: 2/27/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
cooler 1	0c		6	0c	
2	0c		7	0c	
3	0c		8	0c	
4	0c		9	0c	
5	0c		10	0c	

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ~~0~~ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			~~Preserved per COC request or list Sample IDs and Containers Affected:~~ If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 28 2025

☐ Continuation Form Required when selected

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW CONTINUATION FORM

Client: GPCC Received By: OG Date Received: 2/27/25 SDG/AR/COC/Work Order: _____

Tracking Number	Temp (C)	If over 6C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6C, check if samples do not require cold preservation (ie radiochem only).
Cooler 11	0°C				
12	0°C				
13	0°C				

Additional Notes:

PM (or PMA) review: Initials TJB Date FEB 28 2025 Page 1 of 1

List of current GEL Certifications as of 28 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	17 June 2025
To:	Lauren Fitzgerald
From:	Ashley Wilson
CC:	Matthew Richardson
	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – GEL Laboratories, LLC Work Order (WO) 709661**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five groundwater samples collected 18 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709661001	BRA-BRGWA-5I
709661002	BRA-BRGWA-5S
709661003	BRA-BRGWA-2I

Laboratory IDs	Client IDs
709661004	BRA-BRGWA-2S
709661005	BRA-BRGWA-6S

The samples were received at 0 degrees Celsius (^{o}C), outside of the EPA Region 4 criteria of 4^{o}C $\pm$ 2^{o}C. Since the samples were received between 0-6^{o}C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
✓ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.1 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC), for radium-226 and radium-228. Radium-226 was detected greater than the MDC in samples BRA-BRGWA-2S and BRA-BRGWA-5S. Since total radium is calculated from radium-226 and radium-228, and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-BRGWA-2S	Combined Radium 226 + 228	0.747	U	0.747	NA	RO1
BRA-BRGWA-5S	Combined Radium 226 + 228	1.30	U	1.30	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for the radium-226 and radium-228 data. Radium-226 and radium-228 were not detected in the method blanks at or above the measured 2σ uncertainty or the MDC.

1.4 Matrix Spike/Matrix Spike Duplicate

A batch MS was reported for radium-226. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for radium-226 and radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Batch laboratory duplicates were reported for radium-226 and radium-228. Since the batch QC results do not affect the samples in this data set, qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses, and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Field blanks were not reported with the sample set.

1.9 Equipment Blank

Equipment blanks were not reported with the sample set.

1.10 Field Duplicate

Field duplicate samples were not reported with the sample set.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

---

* * * * *

DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	9 June 2025
To:	Lauren Fitzgerald
From:	Ashley Wilson
CC:	Matthew Richardson
	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – GEL Laboratories, LLC Work Orders (WOs) 709659, 709774 and 710993**

SITE: Plant Branch CCR Groundwater Compliance

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five groundwater samples including four equipment blanks, four field blanks and four field duplicate samples collected 18-19 and 26 February 2025, as part of the Plant Branch on-site sampling event.

The samples were analyzed at GEL Laboratories LLC, Charleston, SC, for the following analytical tests:

- Radium-226 by Modified United States (US) Environmental Protection Agency (EPA) Method 903.1
- Radium-228 by Modified US EPA Methods 904.0/9320 Modified
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- American Nuclear Society Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation (ANSI/ANS-41.5-2012), February 15, 2012.

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
709659001	BRA-BRGWC-47
709659002	BRA-PZ-74I
709659003	BRA-PZ-75I
709659004	BRA-APBCD-FB-01
709659005	BRA-APBCD-EB-04
709774001	BRA-APBCD-FD-01
709774002	BRA-BRGWA-23S
709774003	BRA-BRGWC-25I
709774004	BRA-BRGWC-29I
709774005	BRA-BRGWC-52I
709774006	BRA-PZ-63I
709774007	BRA-PZ-68D
709774008	BRA-APBCD-FB-02
709774009	BRA-BRGWC-27I
709774010	BRA-BRGWC-30I
709774011	BRA-BRGWC-32S
709774012	BRA-BRGWC-44
709774013	BRA-BRGWC-45
709774014	BRA-APBCD-EB-05

Laboratory IDs	Client IDs
709774015	BRA-APBCD-FD-02
710993001	BRA-PZ-53D
710993002	BRA-BRGWC-38S
710993003	BRA-APE-FD-04
710993004	BRA-PZ-13S
710993005	BRA-BRGWC-33S
710993006	BRA-APE-FB-07
710993007	BRA-APE-EB-09
710993008	BRA-BRGWC-36S
710993009	BRA-PZ-70I
710993010	BRA-BRGWC-35S
710993011	BRA-APE-FD-05
710993012	BRA-APE-EB-10
710993013	BRA-BRGWC-37S
710993014	BRA-APE-FB-08
710993015	BRA-BRGWC-17S
710993016	BRA-BRGWC-34S
710993017	BRA-PZ-52D

The samples were received at 0 degrees Celsius (°C), outside of the EPA Region 4 criteria of 4°C ± 2°C. Since the samples were received between 0-6°C and based on professional judgment, no qualifications were applied to the data. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
⊗ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
✓ Equipment Blank
⊗ Field Duplicate
✓ Sensitivity

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.1 Analysis Anomaly

Total radium was reported at the minimum detectable concentration (MDC), for radium-226 and radium-228. Radium-226 was detected greater than the MDC in samples BRA-BRGWC-47, BRA-PZ-68D and BRA-PZ-74I. Since total radium is calculated from radium-226 and radium-228, and radium-226 was greater than the MDC, and based on professional and technical judgment, the total radium concentrations for these samples were reported with no qualifications.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
BRA-BRGWC-47	Combined Radium 226 + 228	2.18	U	2.18	NA	RO1
BRA-PZ-68D	Combined Radium 226 + 228	1.79	U	1.79	NA	RO1|BC1
BRA-PZ-74I	Combined Radium 226 + 228	0.399	U	0.399	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for the radium-226 and radium-228 data. Radium-226 and radium-228 were not detected in the method blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium-226 (0.241 pCi/L) was detected in the method blank in batch 2754861 at a concentration greater than the measured 2σ uncertainty. Therefore, the radium-226 concentrations with a mean difference greater than 2 and a concentration less than ten times the method blank concentration for radium-226 in the associated samples were J qualified as estimated and the radium concentrations with a mean difference less than 2 in the associated sample was UJ qualified as not statistically distinguishable from the blank. In addition, the combined radium 226 + 228 concentrations for samples BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-BRGWC-25I, BRA-BRGWC-32S, BRA-BRGWC-45, BRA-BRGWC-52I and BRA-PZ-68D were J qualified as estimated and the combined radium 226 + 228 concentration for samples BRA-BRGWA-23S, BRA-BRGWC-27I, BRA-BRGWC-29I, BRA-BRGWC-44 and BRA-PZ-63I were UJ qualified as not statistically distinguishable from the blank.

Radium-228 (1.83 pCi/L) was detected in the method blank in batch 2757813 at a concentration greater than the measured 2σ uncertainty. Therefore, the radium-228 concentrations with a mean difference greater than 2 and a concentration less than ten times the method blank concentration for radium-228 in the associated samples were J qualified as estimated and the radium concentrations with a mean difference less than 2 in the associated sample was UJ qualified as not statistically distinguishable from the blank. In addition, the combined radium 226 + 228 concentrations for samples BRA-APE-EB-10, BRA-APE-FB-07, BRA-APE-FD-04, BRA-APE-FD-05, BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-BRGWC-35S, BRA-BRGWC-37S, BRA-PZ-13S and BRA-PZ-52D were J qualified as estimated and the combined radium 226 + 228 concentrations for samples BRA-APE-EB-09, BRA-APE-FB-08, BRA-BRGWC-33S, BRA-BRGWC-36S, BRA-BRGWC-38S, BRA-PZ-53D and BRA-PZ-70I were UJ qualified as not statistically distinguishable from the blank.

Radium-226 (0.237 pCi/L) was detected in the method blank in batch 2758590 at a concentration greater than the measured 2σ uncertainty. Therefore, the radium-226 concentrations with a mean difference greater than 2 and a concentration less than ten times the method blank concentration for radium-226 in the associated samples were J qualified as estimated and the radium concentrations with a mean difference less than 2 in the associated sample was UJ qualified as not statistically distinguishable from the blank. In addition, the combined radium 226 + 228 concentrations for BRA-APE-EB-10, BRA-APE-FD-05, BRA-BRGWC-17S, BRA-BRGWC-34S, BRA-BRGWC-35S, BRA-BRGWC-37S, BRA-PZ-52D and BRA-BRGWC-35S were J qualified as estimated.

Sample ID	Compound	Laboratory Result (pCi /L)	Laboratory Flag	Validation Result (pCi /L)	Validation Qualifier	Reason Code
BRA-APBCD-FD-01	Radium-226	1.44	NA	1.44	J	BC1
BRA-APBCD-FD-01	Combined Radium 226 + 228	5.23	NA	5.23	J	BC1
BRA-APBCD-FD-02	Radium-226	1.93	NA	1.93	J	BC1
BRA-APBCD-FD-02	Combined Radium 226 + 228	2.38	NA	2.38	J	BC1
BRA-BRGWA-23S	Combined Radium 226 + 228	2.42	U	2.42	UJ	BC1
BRA-BRGWA-23S	Radium-226	0.556	NA	0.556	UJ	BC1
BRA-BRGWC-25I	Radium-226	1.40	NA	1.40	J	BC1
BRA-BRGWC-25I	Combined Radium 226 + 228	2.94	NA	2.94	J	BC1
BRA-BRGWC-27I	Combined Radium 226 + 228	1.44	U	1.44	UJ	BC1
BRA-BRGWC-27I	Radium-226	0.757	NA	0.757	UJ	BC1
BRA-BRGWC-29I	Radium-226	0.708	NA	0.708	UJ	BC1
BRA-BRGWC-29I	Combined Radium 226 + 228	2.67	NA	2.67	UJ	BC1
BRA-BRGWC-32S	Radium-226	1.07	NA	1.07	J	BC1
BRA-BRGWC-32S	Combined Radium 226 + 228	2.61	NA	2.61	J	BC1
BRA-BRGWC-44	Combined Radium 226 + 228	0.947	U	0.947	UJ	BC1
BRA-BRGWC-44	Radium-226	0.451	NA	0.451	UJ	BC1
BRA-BRGWC-45	Radium-226	0.626	NA	0.626	UJ	BC1

Sample ID	Compound	Laboratory Result (pCi /L)	Laboratory Flag	Validation Result (pCi /L)	Validation Qualifier	Reason Code
BRA-BRGWC-45	Combined Radium 226 + 228	2.94	NA	2.94	J	BC1
BRA-BRGWC-52I	Radium-226	2.40	NA	2.40	J	BC1
BRA-BRGWC-52I	Combined Radium 226 + 228	4.91	NA	4.91	J	BC1
BRA-PZ-63I	Radium-226	0.576	NA	0.576	UJ	BC1
BRA-PZ-63I	Combined Radium 226 + 228	1.73	NA	1.73	J	BC1
BRA-PZ-68D	Radium-226	0.774	NA	0.774	J	BC1
BRA-PZ-68D	Combined Radium 226 + 228	1.79	U	1.79	J	BC1
BRA-APE-EB-09	Radium-228	2.26	NA	2.26	UJ	BC1
BRA-APE-EB-09	Combined Radium 226 + 228	2.34	NA	2.34	UJ	BC1
BRA-APE-EB-10	Radium-226	1.22	NA	1.22	J	BC1
BRA-APE-EB-10	Radium-228	2.70	NA	2.70	UJ	BC1
BRA-APE-EB-10	Combined Radium 226 + 228	3.92	NA	3.92	J	BC1
BRA-APE-FB-07	Radium-228	4.37	NA	4.37	J	BC1
BRA-APE-FB-07	Combined Radium 226 + 228	4.51	NA	4.51	J	BC1
BRA-APE-FB-08	Radium-228	2.62	NA	2.62	UJ	BC1
BRA-APE-FB-08	Combined Radium 226 + 228	2.84	NA	2.84	UJ	BC1
BRA-APE-FD-04	Radium-228	2.48	NA	2.48	UJ	BC1
BRA-APE-FD-04	Combined Radium 226 + 228	3.70	NA	3.70	J	BC1
BRA-APE-FD-05	Radium-226	3.29	NA	3.29	J	BC1
BRA-APE-FD-05	Radium-228	3.02	NA	3.02	UJ	BC1
BRA-APE-FD-05	Combined Radium 226 + 228	6.31	NA	6.31	J	BC1
BRA-BRGWC-17S	Radium-226	3.22	NA	3.22	J	BC1
BRA-BRGWC-17S	Radium-228	2.45	NA	2.45	UJ	BC1
BRA-BRGWC-17S	Combined Radium 226 + 228	5.67	NA	5.67	J	BC1

Sample ID	Compound	Laboratory Result (pCi /L)	Laboratory Flag	Validation Result (pCi /L)	Validation Qualifier	Reason Code
BRA-BRGWC-33S	Radium-228	3.70	NA	3.70	UJ	BC1
BRA-BRGWC-33S	Combined Radium 226 + 228	4.05	NA	4.05	UJ	BC1
BRA-BRGWC-34S	Radium-226	1.93	NA	1.93	J	BC1
BRA-BRGWC-34S	Radium-228	3.02	NA	3.02	UJ	BC1
BRA-BRGWC-34S	Combined Radium 226 + 228	4.95	NA	4.95	J	BC1
BRA-BRGWC-35S	Radium-226	2.64	NA	2.64	J	BC1
BRA-BRGWC-35S	Combined Radium 226 + 228	3.29	NA	3.29	J	BC1
BRA-BRGWC-36S	Radium-228	4.03	NA	4.03	UJ	BC1
BRA-BRGWC-36S	Combined Radium 226 + 228	4.50	NA	4.50	UJ	BC1
BRA-BRGWC-37S	Radium-226	0.979	NA	0.979	J	BC1
BRA-BRGWC-37S	Radium-228	4.39	NA	4.39	J	BC1
BRA-BRGWC-37S	Combined Radium 226 + 228	5.37	NA	5.37	J	BC1
BRA-BRGWC-38S	Radium-228	3.13	NA	3.13	UJ	BC1
BRA-BRGWC-38S	Combined Radium 226 + 228	3.64	NA	3.64	UJ	BC1
BRA-PZ-13S	Radium-228	2.50	NA	2.50	UJ	BC1
BRA-PZ-13S	Combined Radium 226 + 228	3.29	NA	3.29	J	BC1
BRA-PZ-52D	Radium-226	1.03	NA	1.03	J	BC1
BRA-PZ-52D	Radium-228	2.79	NA	2.79	UJ	BC1
BRA-PZ-52D	Combined Radium 226 + 228	3.82	NA	3.82	J	BC1
BRA-PZ-53D	Radium-228	3.96	NA	3.96	UJ	BC1
BRA-PZ-53D	Combined Radium 226 + 228	4.25	NA	4.25	UJ	BC1
BRA-PZ-70I	Radium-228	1.87	NA	1.87	UJ	BC1
BRA-PZ-70I	Combined Radium 226 + 228	2.41	NA	2.41	UJ	BC1

pCi/L-picocuries per liter
NA-not applicable

1.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS was reported using sample BRA-BRGWC-35S. The recovery results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCS/LCS duplicate (LCSD) pairs were reported for radium-226 and radium-228. The recovery and replicate error ratio (RER) [2 sigma (2σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported using samples BRA-BRGWC-35S and BRA-PZ-53D. The RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD of the laboratory duplicate using sample BRA-BRGWC-35S was high and outside of laboratory specified acceptance criteria. Since the MD was less than 3, no qualifications were applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses, and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Four field blanks BRA-APBCD-FB-01, BRA-APBCD-FB-02, BRA-APE-FB-07 and BRA-APE-FB-08 were collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and radium-228 were not detected in the field blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium -228 (4.37 pCi/L) was detected in BRA-APE-FB-07 at a concentration greater than the MDC. Since the radium-228 results for BRA-APE-FB-07 were previously qualified due to method blank contamination, no further qualifications were applied to the data.

Radium-228 (2.62 pCi/L) was detected in the BRA-APE-FB-08 at a concentration greater than the MDC. Since the radium-228 results for BRA-APE-FB-08 were previously qualified due to method blank contamination, no further qualifications were applied to the data.

Radium-228 (2.32 pCi/L) was detected in the BRA-APBCD-FB-01 at a concentration greater than the MDC. Therefore, the radium-228 concentration with a mean difference less than 2 for radium-228 in the associated sample, BRA-APBCD-EB-04, was UJ qualified as estimated. In addition, the combined radium 226 + 228 concentrations for BRA-APBCD-EB-04 was UJ qualified as not statistically distinguishable from the blank.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-APBCD-EB-04	Radium-228	1.78	NA	1.78	UJ	BFH
BRA-APBCD-EB-04	Combined Radium 226 + 228	1.81	NA	1.81	UJ	BFH

pCi/L-picocuries per liter
NA-not applicable

1.9 Equipment Blank

Four field blanks BRA-APBCD-EB-04, BRA-APBCD-EB-05, BRA-APE-EB-09 and BRA-APE-EB-10 were collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and Radium-228 were not detected in the equipment blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium-228 (1.78 pCi/L) was detected in equipment blank, BRA-APBCD-EB-04, at a concentration greater than the MDC. Since the radium-228 result for BRA-APBCD-EB-04 was previously qualified due to field blank contamination, no further qualifications were applied to the data.

Radium-228 (2.26 pCi/L) was detected in equipment blank, BRA-APE-EB-09, at a concentration greater than the MDC. Since the radium-228 result for BRA-APE-EB-09 was previously qualified due to method blank contamination, no further qualifications were applied to the data.

Radium-226 (1.22 pCi/L) and radium-228 (2.70 pCi/L) were detected in BRA-APE-EB-10 at concentrations greater than the MDCs. Since the radium-226 and radium-228 results for BRA-APE-EB-10 were previously qualified due to method blank contamination, no further qualifications were applied to the data.

1.10 Field Duplicate

Four duplicate samples, BRA-APBCD-FD-01, BRA-APBCD-FD-02, BRA-APE-FD-04 and BRA-APE-FD-05, were collected with the sample set. Acceptable precision [mean difference (MD) ≤ 3, RPD < 20% or difference < RL] was demonstrated between the field duplicates and the original samples, BRA-BRGWC-29I, BRA-BRGWC-44, BRA-PZ-13S and BRA-BRGWC-34S, respectively, with the following exception.

The mean difference for radium-226 was greater than 3 in the field duplicate pair using field duplicate, BRA-APBCD-FD-02, and parent sample, BRA-BRGWC-44. Therefore, the concentrations of radium-226 in the field duplicate pair were J qualified as estimated. Since they were previously qualified due to method blank contamination, the radium-226 concentration in BRA-APBCD-FD-02 remained J qualified and the radium-226 concentration in BRA-BRGWC-44 remained UJ qualified.

Sample	Analyte	Laboratory Result (pCi /L)	Laboratory Flag	Mean Difference	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BRA-APBCD-FD-02	Radium-226	1.93	NA	3.989	1.93	J	BC1|FD1
BRA-BRGWC-44	Radium-226	0.451	NA		0.451	UJ	BC1|FD1

pCi/L-picocuries per liter
NA-not applicable

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

---

* * * * *

DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

Low-Flow Test Report:

Test Date / Time: 2/18/2025 9:35:09 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56.94 ft** **Total Depth: 66.94 ft** **Initial Depth to Water: 11.71 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 13.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 44 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time-1030, fe2+=0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/18/2025 9:35 AM	00:00	7.31 pH	9.16 °C	126.17 µS/cm	4.41 mg/L	14.00 NTU	166.6 mV	11.71 ft	250.00 ml/min
2/18/2025 9:40 AM	05:00	6.69 pH	13.21 °C	130.52 µS/cm	0.90 mg/L	4.92 NTU	63.9 mV	13.00 ft	250.00 ml/min
2/18/2025 9:45 AM	10:00	6.60 pH	13.63 °C	132.78 µS/cm	0.99 mg/L	1.51 NTU	60.7 mV	13.80 ft	250.00 ml/min
2/18/2025 9:50 AM	15:00	6.59 pH	13.83 °C	133.00 µS/cm	1.00 mg/L	1.59 NTU	63.8 mV	14.50 ft	250.00 ml/min
2/18/2025 9:55 AM	20:00	6.60 pH	13.89 °C	134.93 µS/cm	0.73 mg/L	1.63 NTU	63.4 mV	15.20 ft	250.00 ml/min
2/18/2025 10:00 AM	25:00	6.64 pH	14.22 °C	143.05 µS/cm	0.53 mg/L	1.44 NTU	60.3 mV	15.40 ft	250.00 ml/min
2/18/2025 10:05 AM	30:00	6.63 pH	14.03 °C	139.06 µS/cm	0.77 mg/L	1.11 NTU	57.7 mV	15.40 ft	250.00 ml/min
2/18/2025 10:10 AM	35:00	6.57 pH	13.94 °C	132.58 µS/cm	1.02 mg/L	1.25 NTU	57.1 mV	15.40 ft	250.00 ml/min
2/18/2025 10:15 AM	40:00	6.50 pH	14.07 °C	126.50 µS/cm	1.17 mg/L	1.17 NTU	56.9 mV	15.40 ft	250.00 ml/min
2/18/2025 10:20 AM	45:00	6.46 pH	13.94 °C	122.50 µS/cm	1.33 mg/L	1.06 NTU	61.2 mV	15.40 ft	250.00 ml/min
2/18/2025 10:25 AM	50:00	6.44 pH	14.15 °C	121.35 µS/cm	1.41 mg/L	0.94 NTU	57.6 mV	15.40 ft	250.00 ml/min
2/18/2025 10:30 AM	55:00	6.42 pH	14.18 °C	119.91 µS/cm	1.47 mg/L	0.99 NTU	57.6 mV	15.40 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/18/2025 10:55:28 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-2S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.4 ft** **Total Depth: 47.4 ft** **Initial Depth to Water: 11.8 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 6.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time -1125, fe2+=0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/18/2025 10:55 AM	00:00	6.65 pH	13.46 °C	80.93 µS/cm	5.14 mg/L	1.69 NTU	58.8 mV	11.80 ft	225.00 ml/min
2/18/2025 11:00 AM	05:00	5.92 pH	14.12 °C	69.94 µS/cm	1.43 mg/L	2.05 NTU	62.5 mV	12.00 ft	225.00 ml/min
2/18/2025 11:05 AM	10:00	5.91 pH	14.27 °C	70.49 µS/cm	0.70 mg/L	1.70 NTU	71.4 mV	12.00 ft	225.00 ml/min
2/18/2025 11:10 AM	15:00	5.88 pH	14.42 °C	69.16 µS/cm	0.66 mg/L	1.04 NTU	64.4 mV	12.00 ft	225.00 ml/min
2/18/2025 11:15 AM	20:00	5.87 pH	14.31 °C	68.94 µS/cm	0.69 mg/L	0.77 NTU	72.0 mV	12.00 ft	225.00 ml/min
2/18/2025 11:20 AM	25:00	5.89 pH	14.45 °C	68.19 µS/cm	0.71 mg/L	0.75 NTU	63.4 mV	12.00 ft	225.00 ml/min
2/18/2025 11:25 AM	30:00	5.88 pH	14.52 °C	68.11 µS/cm	0.73 mg/L	0.82 NTU	63.7 mV	12.00 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 9:32:10 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWA-5I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53 ft** **Total Depth: 63.89 ft** **Initial Depth to Water: 14.11 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3.72 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1002. Sunny, 43 degrees F.
Fe2+= 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 9:32 AM	00:00	6.59 pH	9.70 °C	147.45 µS/cm	9.78 mg/L	1.57 NTU	95.9 mV	14.11 ft	250.00 ml/min
2/18/2025 9:37 AM	05:00	6.30 pH	15.83 °C	147.57 µS/cm	3.61 mg/L	1.20 NTU	61.6 mV	14.30 ft	250.00 ml/min
2/18/2025 9:42 AM	10:00	6.16 pH	16.29 °C	149.92 µS/cm	2.84 mg/L	0.40 NTU	57.0 mV	14.41 ft	250.00 ml/min
2/18/2025 9:47 AM	15:00	6.20 pH	16.37 °C	145.86 µS/cm	3.19 mg/L	0.67 NTU	53.6 mV	14.42 ft	250.00 ml/min
2/18/2025 9:52 AM	20:00	6.18 pH	16.54 °C	143.70 µS/cm	3.62 mg/L	0.72 NTU	53.2 mV	14.42 ft	250.00 ml/min
2/18/2025 9:57 AM	25:00	6.17 pH	16.44 °C	142.21 µS/cm	3.87 mg/L	0.99 NTU	53.1 mV	14.42 ft	250.00 ml/min
2/18/2025 10:02 AM	30:00	6.17 pH	16.59 °C	141.74 µS/cm	3.77 mg/L	0.66 NTU	53.8 mV	14.42 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 9:34:04 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWA-5S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.1 ft** **Total Depth: 43.1 ft** **Initial Depth to Water: 14.25 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sampled at 0959. Clear 38 degrees. Fe2+: 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/18/2025 9:34 AM	00:00	7.73 pH	10.45 °C	170.32 µS/cm	10.17 mg/L	0.38 NTU	171.7 mV	14.25 ft	280.00 ml/min
2/18/2025 9:39 AM	05:00	6.44 pH	15.66 °C	146.96 µS/cm	5.11 mg/L	1.34 NTU	106.0 mV	14.45 ft	280.00 ml/min
2/18/2025 9:44 AM	10:00	6.45 pH	15.77 °C	147.17 µS/cm	5.05 mg/L	1.78 NTU	83.5 mV	14.54 ft	280.00 ml/min
2/18/2025 9:49 AM	15:00	6.42 pH	16.94 °C	144.27 µS/cm	4.03 mg/L	1.66 NTU	106.4 mV	14.54 ft	280.00 ml/min
2/18/2025 9:54 AM	20:00	6.42 pH	17.06 °C	146.36 µS/cm	3.92 mg/L	1.84 NTU	74.8 mV	14.54 ft	280.00 ml/min
2/18/2025 9:59 AM	25:00	6.42 pH	17.10 °C	146.04 µS/cm	3.87 mg/L	1.75 NTU	72.7 mV	14.54 ft	280.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/18/2025 12:35:26 PM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWA-6S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.9 ft** **Total Depth: 52.9 ft** **Initial Depth to Water: 28.83 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 6.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time -1305, fe2+=0.0 mg/ L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/18/2025 12:35 PM	00:00	6.48 pH	17.92 °C	48.04 µS/cm	8.81 mg/L	0.59 NTU	76.9 mV	28.83 ft	225.00 ml/min
2/18/2025 12:40 PM	05:00	6.40 pH	15.90 °C	50.83 µS/cm	7.33 mg/L	0.84 NTU	72.9 mV	29.00 ft	225.00 ml/min
2/18/2025 12:45 PM	10:00	6.38 pH	15.66 °C	50.88 µS/cm	7.17 mg/L	1.99 NTU	71.7 mV	29.40 ft	225.00 ml/min
2/18/2025 12:50 PM	15:00	6.38 pH	15.52 °C	50.83 µS/cm	7.15 mg/L	1.64 NTU	70.9 mV	29.50 ft	225.00 ml/min
2/18/2025 12:55 PM	20:00	6.38 pH	15.67 °C	50.81 µS/cm	7.19 mg/L	1.52 NTU	69.4 mV	29.50 ft	225.00 ml/min
2/18/2025 1:00 PM	25:00	6.38 pH	15.38 °C	50.99 µS/cm	7.24 mg/L	1.30 NTU	79.5 mV	29.50 ft	225.00 ml/min
2/18/2025 1:05 PM	30:00	6.38 pH	15.38 °C	51.14 µS/cm	7.25 mg/L	0.98 NTU	80.6 mV	29.50 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/26/2025 3:05:38 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: BRGWC-17S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 5.22 ft** **Total Depth: 10.22 ft** **Initial Depth to Water: 5.49 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 7.5 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 2.52 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Sample Time: 1545
Sunny, 70s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 3:05 PM	00:00	6.29 pH	21.03 °C	364.66 µS/cm	2.08 mg/L	2.34 NTU	1.3 mV	5.49 ft	225.00 ml/min
2/26/2025 3:10 PM	05:00	6.25 pH	15.75 °C	403.71 µS/cm	1.68 mg/L	1.27 NTU	1.3 mV	5.70 ft	225.00 ml/min
2/26/2025 3:15 PM	10:00	6.24 pH	15.37 °C	407.84 µS/cm	1.61 mg/L	0.95 NTU	3.4 mV	5.70 ft	225.00 ml/min
2/26/2025 3:20 PM	15:00	6.24 pH	15.29 °C	409.33 µS/cm	1.54 mg/L	0.93 NTU	5.2 mV	5.70 ft	225.00 ml/min
2/26/2025 3:25 PM	20:00	6.25 pH	15.26 °C	409.89 µS/cm	1.50 mg/L	0.90 NTU	6.7 mV	5.70 ft	225.00 ml/min
2/26/2025 3:30 PM	25:00	6.25 pH	15.16 °C	410.70 µS/cm	1.47 mg/L	0.75 NTU	8.0 mV	5.70 ft	225.00 ml/min
2/26/2025 3:35 PM	30:00	6.25 pH	15.06 °C	412.65 µS/cm	1.50 mg/L	0.85 NTU	9.2 mV	5.70 ft	225.00 ml/min
2/26/2025 3:40 PM	35:00	6.26 pH	14.99 °C	411.31 µS/cm	1.49 mg/L	0.83 NTU	10.1 mV	5.70 ft	225.00 ml/min
2/26/2025 3:45 PM	40:00	6.26 pH	14.90 °C	411.61 µS/cm	1.48 mg/L	0.80 NTU	11.1 mV	5.70 ft	225.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/26/2025 10:51:46 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-33S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.9 ft** **Total Depth: 28.9 ft** **Initial Depth to Water: 14.18 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 11.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 330 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Sampled at 1126. Sunny 66 degrees. APE-FB-07 taken here.
Fe2+ = 0.0

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 10:51 AM	00:00	5.33 pH	19.07 °C	2,398.1 µS/cm	2.45 mg/L	3.24 NTU	143.4 mV	14.18 ft	330.00 ml/min
2/26/2025 10:56 AM	05:00	4.94 pH	20.41 °C	2,565.1 µS/cm	0.11 mg/L	5.18 NTU	201.4 mV	14.23 ft	330.00 ml/min
2/26/2025 11:01 AM	10:00	4.94 pH	20.44 °C	2,536.2 µS/cm	0.09 mg/L	3.43 NTU	215.3 mV	14.25 ft	330.00 ml/min
2/26/2025 11:06 AM	15:00	4.94 pH	20.39 °C	2,552.5 µS/cm	0.09 mg/L	2.49 NTU	225.4 mV	14.25 ft	330.00 ml/min
2/26/2025 11:11 AM	20:00	4.94 pH	20.40 °C	2,526.9 µS/cm	0.09 mg/L	1.27 NTU	234.2 mV	14.25 ft	330.00 ml/min
2/26/2025 11:16 AM	25:00	4.93 pH	20.41 °C	2,537.8 µS/cm	0.10 mg/L	1.21 NTU	239.9 mV	14.25 ft	330.00 ml/min
2/26/2025 11:21 AM	30:00	4.93 pH	20.39 °C	2,530.7 µS/cm	0.11 mg/L	1.16 NTU	261.1 mV	14.25 ft	330.00 ml/min
2/26/2025 11:26 AM	35:00	4.94 pH	20.39 °C	2,540.4 µS/cm	0.11 mg/L	1.34 NTU	276.0 mV	14.25 ft	330.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/26/2025 4:18:03 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: BRGWC-34S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.8 ft** **Total Depth: 25.8 ft** **Initial Depth to Water: 3.69 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 320 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Sampled at 1643. Sunny 74 degrees. APE-FD-05 taken here; Fe2+ = 0.0

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 4:18 PM	00:00	6.94 pH	25.10 °C	758.05 µS/cm	3.37 mg/L	1.79 NTU	69.0 mV	3.69 ft	320.00 ml/min
2/26/2025 4:23 PM	05:00	6.04 pH	19.52 °C	873.03 µS/cm	0.54 mg/L	0.89 NTU	103.3 mV	3.71 ft	320.00 ml/min
2/26/2025 4:28 PM	10:00	6.00 pH	19.21 °C	874.66 µS/cm	0.16 mg/L	0.63 NTU	98.4 mV	3.72 ft	320.00 ml/min
2/26/2025 4:33 PM	15:00	5.99 pH	19.14 °C	874.71 µS/cm	0.13 mg/L	0.55 NTU	95.3 mV	3.72 ft	320.00 ml/min
2/26/2025 4:38 PM	20:00	5.98 pH	19.10 °C	870.70 µS/cm	0.13 mg/L	0.48 NTU	92.7 mV	3.72 ft	320.00 ml/min
2/26/2025 4:43 PM	25:00	5.97 pH	19.08 °C	866.37 µS/cm	0.12 mg/L	0.44 NTU	90.4 mV	3.72 ft	320.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/26/2025 1:14:08 PM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: BRGWC-35S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30.01 ft** **Initial Depth to Water: 0.62 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.96 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Sample Time: 1339
Sunny, 70s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 1:14 PM	00:00	5.93 pH	18.65 °C	466.38 µS/cm	1.57 mg/L	0.73 NTU	60.0 mV	0.62 ft	300.00 ml/min
2/26/2025 1:19 PM	05:00	5.93 pH	18.72 °C	466.25 µS/cm	0.38 mg/L	0.90 NTU	57.7 mV	0.70 ft	300.00 ml/min
2/26/2025 1:24 PM	10:00	5.93 pH	19.05 °C	466.41 µS/cm	0.29 mg/L	0.73 NTU	57.0 mV	0.70 ft	300.00 ml/min
2/26/2025 1:29 PM	15:00	5.93 pH	19.01 °C	467.61 µS/cm	0.26 mg/L	0.87 NTU	56.8 mV	0.70 ft	300.00 ml/min
2/26/2025 1:34 PM	20:00	5.93 pH	19.19 °C	469.83 µS/cm	0.23 mg/L	0.70 NTU	56.3 mV	0.70 ft	300.00 ml/min
2/26/2025 1:39 PM	25:00	5.94 pH	19.29 °C	471.49 µS/cm	0.22 mg/L	0.81 NTU	55.9 mV	0.70 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/26/2025 11:16:03 AM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: BRGWC-36S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25 ft** **Total Depth: 35.44 ft** **Initial Depth to Water: 6.01 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 2.28 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Sample Time: 1156
Sunny, 70s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 11:16 AM	00:00	5.66 pH	18.30 °C	369.83 µS/cm	3.40 mg/L	2.88 NTU	96.6 mV	6.01 ft	300.00 ml/min
2/26/2025 11:21 AM	05:00	5.64 pH	16.66 °C	406.05 µS/cm	2.90 mg/L	1.95 NTU	86.8 mV	6.20 ft	300.00 ml/min
2/26/2025 11:26 AM	10:00	5.64 pH	16.56 °C	399.89 µS/cm	2.84 mg/L	1.50 NTU	81.4 mV	6.20 ft	300.00 ml/min
2/26/2025 11:31 AM	15:00	5.64 pH	16.65 °C	398.56 µS/cm	2.84 mg/L	1.51 NTU	77.7 mV	6.20 ft	300.00 ml/min
2/26/2025 11:36 AM	20:00	5.64 pH	16.61 °C	395.50 µS/cm	2.87 mg/L	1.21 NTU	75.0 mV	6.20 ft	300.00 ml/min
2/26/2025 11:41 AM	25:00	5.64 pH	16.81 °C	397.50 µS/cm	2.85 mg/L	1.37 NTU	74.6 mV	6.20 ft	300.00 ml/min
2/26/2025 11:46 AM	30:00	5.64 pH	16.78 °C	396.32 µS/cm	2.82 mg/L	1.56 NTU	73.2 mV	6.20 ft	300.00 ml/min
2/26/2025 11:51 AM	35:00	5.64 pH	16.94 °C	396.57 µS/cm	2.89 mg/L	1.38 NTU	71.9 mV	6.20 ft	300.00 ml/min
2/26/2025 11:56 AM	40:00	5.64 pH	16.98 °C	393.05 µS/cm	2.84 mg/L	0.94 NTU	71.0 mV	6.20 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/26/2025 1:27:07 PM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: BRGWC-37S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 56.2 ft** **Total Depth: 66.24 ft** **Initial Depth to Water: 56.95 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 61 ft** **Estimated Total Volume Pumped: 17.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 5.16 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes: Sample time 1517. Sunny, 74 degrees F ; Fe2+=0.0

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 1:27 PM	00:00	5.86 pH	32.81 °C	0.00 µS/cm	6.54 mg/L	1.02 NTU	249.5 mV	56.95 ft	160.00 ml/min
2/26/2025 1:32 PM	05:00	6.39 pH	25.60 °C	45.98 µS/cm	7.65 mg/L	0.73 NTU	156.8 mV	57.03 ft	160.00 ml/min
2/26/2025 1:37 PM	10:00	5.94 pH	23.40 °C	44.40 µS/cm	7.22 mg/L	0.36 NTU	180.7 mV	57.10 ft	160.00 ml/min
2/26/2025 1:42 PM	15:00	5.79 pH	22.71 °C	45.22 µS/cm	7.13 mg/L	0.18 NTU	269.5 mV	57.16 ft	160.00 ml/min
2/26/2025 1:47 PM	20:00	5.76 pH	22.41 °C	45.89 µS/cm	7.10 mg/L	0.20 NTU	192.4 mV	57.18 ft	160.00 ml/min
2/26/2025 1:52 PM	25:00	5.74 pH	22.17 °C	45.75 µS/cm	7.04 mg/L	0.22 NTU	185.0 mV	57.20 ft	160.00 ml/min
2/26/2025 1:57 PM	30:00	5.74 pH	22.09 °C	45.87 µS/cm	6.98 mg/L	0.21 NTU	179.8 mV	57.24 ft	160.00 ml/min
2/26/2025 2:02 PM	35:00	5.73 pH	22.28 °C	45.89 µS/cm	6.92 mg/L	0.20 NTU	175.7 mV	57.27 ft	160.00 ml/min
2/26/2025 2:07 PM	40:00	5.72 pH	22.31 °C	45.75 µS/cm	6.88 mg/L	0.20 NTU	251.1 mV	57.32 ft	160.00 ml/min
2/26/2025 2:12 PM	45:00	5.72 pH	21.11 °C	45.45 µS/cm	6.98 mg/L	0.27 NTU	179.1 mV	57.35 ft	160.00 ml/min
2/26/2025 2:17 PM	50:00	5.73 pH	22.12 °C	45.91 µS/cm	6.94 mg/L	0.30 NTU	174.1 mV	57.37 ft	160.00 ml/min
2/26/2025 2:22 PM	55:00	5.71 pH	22.53 °C	44.89 µS/cm	6.89 mg/L	0.16 NTU	248.5 mV	57.38 ft	160.00 ml/min
2/26/2025 2:27 PM	01:00:00	5.72 pH	23.06 °C	45.45 µS/cm	6.82 mg/L	0.16 NTU	177.6 mV	57.38 ft	160.00 ml/min
2/26/2025 2:32 PM	01:05:00	5.71 pH	23.07 °C	45.60 µS/cm	6.83 mg/L	0.14 NTU	173.2 mV	57.38 ft	160.00 ml/min

2/26/2025 2:37 PM	01:10:00	5.72 pH	23.47 °C	45.87 µS/cm	6.89 mg/L	0.15 NTU	249.2 mV	57.38 ft	160.00 ml/min
2/26/2025 2:42 PM	01:15:00	5.72 pH	23.73 °C	45.74 µS/cm	6.89 mg/L	0.18 NTU	181.2 mV	57.38 ft	160.00 ml/min
2/26/2025 2:47 PM	01:20:00	5.72 pH	23.30 °C	44.54 µS/cm	6.95 mg/L	0.19 NTU	177.4 mV	57.38 ft	160.00 ml/min
2/26/2025 2:52 PM	01:25:00	5.69 pH	22.56 °C	46.41 µS/cm	7.03 mg/L	0.19 NTU	261.3 mV	57.38 ft	160.00 ml/min
2/26/2025 2:57 PM	01:30:00	5.67 pH	24.57 °C	46.75 µS/cm	6.96 mg/L	0.42 NTU	188.2 mV	57.38 ft	160.00 ml/min
2/26/2025 3:02 PM	01:35:00	5.74 pH	24.24 °C	46.48 µS/cm	7.01 mg/L	0.38 NTU	184.7 mV	57.38 ft	160.00 ml/min
2/26/2025 3:07 PM	01:40:00	5.74 pH	24.71 °C	46.50 µS/cm	7.01 mg/L	0.32 NTU	186.5 mV	57.38 ft	160.00 ml/min
2/26/2025 3:12 PM	01:45:00	5.74 pH	24.24 °C	46.39 µS/cm	7.11 mg/L	0.30 NTU	188.7 mV	57.38 ft	160.00 ml/min
2/26/2025 3:17 PM	01:50:00	5.73 pH	22.30 °C	46.19 µS/cm	7.28 mg/L	0.32 NTU	282.3 mV	57.38 ft	160.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/26/2025 9:15:09 AM
Project: Plant Branch Ash Ponds
Operator Name: J. Berisford

Location Name: BRGWC-38S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30.64 ft** **Total Depth: 40.64 ft** **Initial Depth to Water: 25.8 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 12 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sunny, sample time -1000, fe2+=0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/26/2025 9:15 AM	00:00	4.19 pH	12.67 °C	359.90 µS/cm	5.13 mg/L	0.46 NTU	202.2 mV	25.80 ft	200.00 ml/min
2/26/2025 9:20 AM	05:00	4.14 pH	13.94 °C	326.40 µS/cm	2.48 mg/L	0.47 NTU	229.9 mV	26.70 ft	200.00 ml/min
2/26/2025 9:25 AM	10:00	4.14 pH	14.84 °C	314.15 µS/cm	1.94 mg/L	0.47 NTU	192.1 mV	26.80 ft	200.00 ml/min
2/26/2025 9:30 AM	15:00	4.15 pH	15.04 °C	313.02 µS/cm	1.75 mg/L	0.49 NTU	184.8 mV	26.80 ft	200.00 ml/min
2/26/2025 9:35 AM	20:00	4.16 pH	15.08 °C	316.44 µS/cm	1.67 mg/L	0.44 NTU	181.8 mV	26.80 ft	200.00 ml/min
2/26/2025 9:40 AM	25:00	4.17 pH	15.12 °C	318.81 µS/cm	1.61 mg/L	0.39 NTU	178.7 mV	26.80 ft	200.00 ml/min
2/26/2025 9:45 AM	30:00	4.18 pH	15.05 °C	322.26 µS/cm	1.61 mg/L	0.42 NTU	174.6 mV	26.80 ft	200.00 ml/min
2/26/2025 9:50 AM	35:00	4.22 pH	15.13 °C	323.68 µS/cm	1.61 mg/L	0.40 NTU	172.6 mV	26.80 ft	200.00 ml/min
2/26/2025 9:55 AM	40:00	4.23 pH	15.17 °C	324.20 µS/cm	1.60 mg/L	0.34 NTU	169.3 mV	26.80 ft	200.00 ml/min
2/26/2025 10:00 AM	45:00	4.23 pH	15.24 °C	326.15 µS/cm	1.57 mg/L	0.35 NTU	167.7 mV	26.80 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/26/2025 9:13:34 AM
Project: Plant Branch Ash Ponds
Operator Name: J. May

Location Name: PZ-13S **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.17 ft** **Total Depth: 38.17 ft** **Initial Depth to Water: 31.99 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 16.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1.32 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Sample Time: 1008
Sunny, 50s
Fe2+ = 0.0 mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 9:13 AM	00:00	5.71 pH	14.51 °C	214.82 µS/cm	6.19 mg/L	3.10 NTU	114.2 mV	31.99 ft	300.00 ml/min
2/26/2025 9:18 AM	05:00	5.55 pH	16.48 °C	223.19 µS/cm	3.43 mg/L	1.63 NTU	94.9 mV	32.10 ft	300.00 ml/min
2/26/2025 9:23 AM	10:00	5.54 pH	16.63 °C	222.12 µS/cm	3.32 mg/L	4.26 NTU	90.5 mV	32.10 ft	300.00 ml/min
2/26/2025 9:28 AM	15:00	5.54 pH	16.75 °C	221.14 µS/cm	3.30 mg/L	5.47 NTU	87.9 mV	32.10 ft	300.00 ml/min
2/26/2025 9:33 AM	20:00	5.53 pH	16.83 °C	220.75 µS/cm	3.28 mg/L	3.96 NTU	86.3 mV	32.10 ft	300.00 ml/min
2/26/2025 9:38 AM	25:00	5.53 pH	16.93 °C	220.73 µS/cm	3.29 mg/L	2.83 NTU	85.0 mV	32.10 ft	300.00 ml/min
2/26/2025 9:43 AM	30:00	5.54 pH	17.04 °C	221.12 µS/cm	3.28 mg/L	1.77 NTU	83.5 mV	32.10 ft	300.00 ml/min
2/26/2025 9:48 AM	35:00	5.54 pH	17.48 °C	220.13 µS/cm	3.27 mg/L	1.28 NTU	82.2 mV	32.10 ft	300.00 ml/min
2/26/2025 9:53 AM	40:00	5.55 pH	17.72 °C	219.23 µS/cm	3.28 mg/L	1.37 NTU	80.7 mV	32.10 ft	300.00 ml/min
2/26/2025 9:58 AM	45:00	5.56 pH	17.67 °C	219.18 µS/cm	3.30 mg/L	1.15 NTU	79.8 mV	32.10 ft	300.00 ml/min
2/26/2025 10:03 AM	50:00	5.55 pH	17.66 °C	219.01 µS/cm	3.30 mg/L	1.57 NTU	79.2 mV	32.10 ft	300.00 ml/min
2/26/2025 10:08 AM	55:00	5.55 pH	17.53 °C	219.05 µS/cm	3.32 mg/L	1.33 NTU	78.6 mV	32.10 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/26/2025 9:19:08 AM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.23 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 25.93 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 15.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 28.62 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Purged dry

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 9:19 AM	00:00	8.44 pH	11.61 °C	637.45 µS/cm	10.35 mg/L	3.45 NTU	184.8 mV	25.93 ft	100.00 ml/min
2/26/2025 9:24 AM	05:00	7.71 pH	18.65 °C	476.03 µS/cm	4.59 mg/L	2.45 NTU	133.3 mV	27.05 ft	100.00 ml/min
2/26/2025 9:29 AM	10:00	7.68 pH	18.97 °C	469.18 µS/cm	4.48 mg/L	1.87 NTU	91.9 mV	28.25 ft	100.00 ml/min
2/26/2025 9:34 AM	15:00	7.68 pH	19.10 °C	466.57 µS/cm	4.44 mg/L	1.54 NTU	81.6 mV	28.88 ft	50.00 ml/min
2/26/2025 9:39 AM	20:00	7.68 pH	19.22 °C	462.46 µS/cm	4.44 mg/L	1.32 NTU	77.1 mV	29.51 ft	50.00 ml/min
2/26/2025 9:44 AM	25:00	7.68 pH	19.22 °C	460.49 µS/cm	4.44 mg/L	1.84 NTU	74.1 mV	30.13 ft	50.00 ml/min
2/26/2025 9:49 AM	30:00	7.69 pH	19.49 °C	460.28 µS/cm	4.51 mg/L	1.61 NTU	71.2 mV	32.44 ft	300.00 ml/min
2/26/2025 9:54 AM	35:00	7.69 pH	19.51 °C	459.62 µS/cm	4.49 mg/L	1.80 NTU	69.6 mV	37.16 ft	300.00 ml/min
2/26/2025 9:59 AM	40:00	7.69 pH	19.52 °C	460.75 µS/cm	4.56 mg/L	1.60 NTU	68.2 mV	39.45 ft	300.00 ml/min
2/26/2025 10:04 AM	45:00	7.69 pH	19.59 °C	459.59 µS/cm	4.94 mg/L	1.66 NTU	67.6 mV	42.22 ft	300.00 ml/min
2/26/2025 10:09 AM	50:00	7.69 pH	19.59 °C	458.27 µS/cm	5.37 mg/L	1.86 NTU	67.2 mV	44.79 ft	300.00 ml/min
2/26/2025 10:14 AM	55:00	7.68 pH	19.63 °C	458.04 µS/cm	5.68 mg/L	1.99 NTU	66.4 mV	47.45 ft	300.00 ml/min
2/26/2025 10:19 AM	01:00:00	7.68 pH	19.63 °C	458.37 µS/cm	5.88 mg/L	1.33 NTU	66.5 mV	50.26 ft	300.00 ml/min
2/26/2025 10:24 AM	01:05:00	7.68 pH	19.63 °C	457.50 µS/cm	6.01 mg/L	0.82 NTU	66.5 mV	53.04 ft	300.00 ml/min

2/26/2025 10:29 AM	01:10:00	7.68 pH	19.66 °C	456.93 µS/cm	6.14 mg/L	0.77 NTU	66.1 mV	54.55 ft	300.00 ml/min
2/26/2025 10:34 AM	01:15:00	7.68 pH	19.67 °C	454.45 µS/cm	6.12 mg/L	0.81 NTU	65.8 mV	54.55 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/26/2025 3:11:13 PM
Project: Plant Branch Ash Ponds
Operator Name: Taylor Goble

Location Name: PZ-52D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.23 ft** **Total Depth: 62.23 ft** **Initial Depth to Water: 52.21 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 0.56 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes: Sampled at 1516. Sunny 74 degrees; Fe2+=0.0

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 3:11 PM	00:00	7.10 pH	35.35 °C	517.02 µS/cm	5.55 mg/L	1.90 NTU	127.8 mV	52.21 ft	50.00 ml/min
2/26/2025 3:12 PM	01:00	7.35 pH	30.69 °C	462.90 µS/cm	5.75 mg/L	1.77 NTU	105.6 mV	52.37 ft	50.00 ml/min
2/26/2025 3:13 PM	02:00	7.44 pH	27.68 °C	455.11 µS/cm	5.93 mg/L	1.71 NTU	120.5 mV	52.50 ft	50.00 ml/min
2/26/2025 3:14 PM	03:00	7.52 pH	25.97 °C	454.82 µS/cm	6.04 mg/L	1.54 NTU	120.9 mV	52.61 ft	50.00 ml/min
2/26/2025 3:15 PM	04:00	7.55 pH	24.92 °C	456.89 µS/cm	6.11 mg/L	1.32 NTU	120.5 mV	52.70 ft	50.00 ml/min
2/26/2025 3:16 PM	05:00	7.58 pH	24.46 °C	458.60 µS/cm	5.87 mg/L	1.17 NTU	119.3 mV	52.77 ft	50.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/26/2025 9:01:26 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-53D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 132 ft** **Total Depth: 142.48 ft** **Initial Depth to Water: 27.25 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 137 ft** **Estimated Total Volume Pumped: 3.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3.96 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sample time 0936. Sunny, 57 degrees F.
Fe2+=0.0mg/L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 9:01 AM	00:00	7.86 pH	9.80 °C	635.94 µS/cm	9.78 mg/L	0.77 NTU	124.3 mV	27.25 ft	100.00 ml/min
2/26/2025 9:06 AM	05:00	7.06 pH	11.11 °C	627.72 µS/cm	6.45 mg/L	0.77 NTU	131.0 mV	27.41 ft	100.00 ml/min
2/26/2025 9:11 AM	10:00	6.83 pH	11.94 °C	620.97 µS/cm	4.30 mg/L	0.75 NTU	26.9 mV	27.47 ft	100.00 ml/min
2/26/2025 9:16 AM	15:00	6.89 pH	12.62 °C	622.29 µS/cm	2.39 mg/L	0.22 NTU	-28.8 mV	27.51 ft	100.00 ml/min
2/26/2025 9:21 AM	20:00	6.95 pH	13.40 °C	612.50 µS/cm	1.77 mg/L	0.20 NTU	-19.5 mV	27.56 ft	100.00 ml/min
2/26/2025 9:26 AM	25:00	6.96 pH	13.90 °C	621.17 µS/cm	1.49 mg/L	0.19 NTU	2.6 mV	27.57 ft	100.00 ml/min
2/26/2025 9:31 AM	30:00	6.98 pH	14.27 °C	616.66 µS/cm	1.45 mg/L	0.17 NTU	15.6 mV	27.58 ft	100.00 ml/min
2/26/2025 9:36 AM	35:00	6.99 pH	14.57 °C	621.82 µS/cm	1.39 mg/L	0.16 NTU	23.4 mV	27.58 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/26/2025 11:42:34 AM
Project: Plant Branch Ash Ponds
Operator Name: D. Johnson

Location Name: PZ-70I **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.8 ft** **Total Depth: 52.82 ft** **Initial Depth to Water: 32.5 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 12.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 5.16 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Sample time 1232. Sunny, 75 degrees F.
Fe2+= 0.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/26/2025 11:42 AM	00:00	5.57 pH	20.52 °C	323.81 µS/cm	4.67 mg/L	0.20 NTU	28.7 mV	32.50 ft	250.00 ml/min
2/26/2025 11:47 AM	05:00	5.39 pH	21.27 °C	313.43 µS/cm	1.38 mg/L	0.17 NTU	82.4 mV	32.64 ft	250.00 ml/min
2/26/2025 11:52 AM	10:00	5.37 pH	21.11 °C	312.37 µS/cm	0.58 mg/L	0.13 NTU	109.3 mV	32.77 ft	250.00 ml/min
2/26/2025 11:57 AM	15:00	5.36 pH	21.02 °C	308.88 µS/cm	0.40 mg/L	0.15 NTU	143.4 mV	32.85 ft	250.00 ml/min
2/26/2025 12:02 PM	20:00	5.36 pH	21.46 °C	308.64 µS/cm	0.34 mg/L	0.12 NTU	167.5 mV	32.88 ft	250.00 ml/min
2/26/2025 12:07 PM	25:00	5.36 pH	21.33 °C	308.38 µS/cm	0.33 mg/L	0.11 NTU	187.0 mV	32.92 ft	250.00 ml/min
2/26/2025 12:12 PM	30:00	5.36 pH	21.24 °C	309.29 µS/cm	0.30 mg/L	0.12 NTU	201.2 mV	32.93 ft	250.00 ml/min
2/26/2025 12:17 PM	35:00	5.37 pH	22.17 °C	313.43 µS/cm	0.30 mg/L	0.11 NTU	203.8 mV	32.93 ft	250.00 ml/min
2/26/2025 12:22 PM	40:00	5.36 pH	21.82 °C	313.33 µS/cm	0.30 mg/L	0.12 NTU	208.2 mV	32.93 ft	250.00 ml/min
2/26/2025 12:27 PM	45:00	5.36 pH	22.04 °C	315.71 µS/cm	0.29 mg/L	0.11 NTU	205.4 mV	32.93 ft	250.00 ml/min
2/26/2025 12:32 PM	50:00	5.35 pH	24.37 °C	318.89 µS/cm	0.41 mg/L	0.11 NTU	205.5 mV	32.93 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Flat Branch Pond E Date: 2/26/25

Calibrated By: J. Bonsteel Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989619
Turbidity Meter	HACH 2100 Q	22080D00127

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	—	—
pH (SU)	4.00	4661238	7/26	PME
pH (SU)	7.00	461 0915	9/26	↓
pH (SU)	10.00	4660600	3/26	
Specific Conductance (µS/cm)	1,413	461H-0240	8/25	
ORP (mV)	240.0	4660438	4/25	

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	~~DI~~ H_2O	—	—
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4174	10/25	HACH

Calibration					
Time Start: ~~830~~ 0801		**Time Finish:** 0812			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.7	4.48	± 10%	EPA 2023
pH (SU)	4.00	4.00	5.69	± 0.1	GWMP
pH (SU)	7.00	7.06	6.90	± 0.1	GWMP
pH (SU)	10.00	10.14	6.43	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1,284	1288	6.96	± 10% of standard	NA
ORP (mV)	~~240.0~~ 252	252	7.25	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	9.99		
	20	21.3		
	100	102		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	~~4.00~~			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch ~~AP-BCD~~ E

Date: 07.26.25

Calibrated By: J. Nay

Field Conditions: Sunny, 90s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1120055
Turbidity Meter	Hach 2100Q	24010D006426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GG1238	07/26	PINE
pH (SU)	7.00	4G10109	09/26	PINE
pH (SU)	10.00	4GG61192	01/26	PINE
Specific Conductance (µS/cm)	1,413	4GH0240	08/25	PINE
ORP (mV)	240.0	4GJ1196	07/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4029	05/25	HACH
	20	A3363	04/25	HACH
	100	A4002	04/25	HACH

Calibration					
Time Start: 0805		**Time Finish:** 0820			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.13	4.84	± 10%	EPA 2023
pH (SU)	4.00	4.00	5.09	± 0.1	GWMP
pH (SU)	7.00	7.06	6.15	± 0.1	GWMP
pH (SU)	10.00	10.14	5.96	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	6.22	± 10% of standard	NA
ORP (mV)	240.0	239.4	6.24	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.25	± 10% of standard	EPA 2023
	10	10.5		
	20	21.0		
	100	103		

Calibration Check					
Time Start 1255		**Time Finish** 1305			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.00	21.06	± 0.1	GWMP
pH (SU)	7.00	7.02	19.01	± 0.1	GWMP
pH (SU)	10.00	10.05	19.59	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1409.9	19.10	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.30	± 10% of standard	EPA 2023
	10	10.3		
	20	20.7		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch

Date: 2-26-25

Calibrated By: T. Goble

Field Conditions: Clear 46° F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	966105
Turbidity Meter	HACH 2100Q	24010C00462

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	24010943	5/25	PINE
pH (SU)	7.00	4GD16667	4/26	PINE
pH (SU)	10.00	3GG0534	7/25	PINE
Specific Conductance (µS/cm)	~~1,413~~ 4490	24010943	5/25	PINE
ORP (mV)	~~240.0~~ 228	24011792	6/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	44029	5/25	HACH
	20	A3363	4/25	HACH
	100	A4002	4/25	HACH

Calibration					
Time Start: 0755			Time Finish: 0815		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.33	6.05	± 10%	EPA 2023
pH (SU)	4.00	4.00	8.80	± 0.1	GWMP
pH (SU)	7.00	7.06	9.80	± 0.1	GWMP
pH (SU)	10.00	10.121	10.45	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 4490	4501	8.14	± 10% of standard	NA
ORP (mV)	~~240.0~~ 228	227.7	10.64	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.14	± 10% of standard	EPA 2023
	10	10.3		
	20	19.9		
	100	97.8		

Calibration Check					
Time Start 1315			Time Finish 1330		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.03	17.27	± 0.1	GWMP
pH (SU)	7.00	7.06	16.88	± 0.1	GWMP
pH (SU)	10.00	10.06	16.55	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 4490	4511	17.17	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.13	± 10% of standard	EPA 2023
	10	10.3		
	20	20.1		
	100	101		

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Branch AB-E Date: 2/26/25

Calibrated By: D. Johnson Field Conditions: Sunny, 48°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1170046
Turbidity Meter	HACH 2100Q	240100D004439

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	-	-	-
pH (SU)	4.00	4GH7238	7/26	AIR
pH (SU)	7.00	4GJ0127	10/26	AIR
pH (SU)	10.00	4GI0913	9/26	AIR
Specific Conductance (µS/cm)	1,413	4G75055	10/25	AIR
ORP (mV)	240.0	5GA0447	10/25	AIR

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	-	-	-
	10	A4029	5/25	HACH
	20	A3363	4/25	HACH
	100	A4002	4/25	HACH

Calibration					
Time Start: 0804		Time Finish: 0817			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.55	8.49	± 10%	EPA 2023
pH (SU)	4.00	4.00	10.47	± 0.1	GWMP
pH (SU)	7.00	7.06	10.45	± 0.1	GWMP
pH (SU)	10.00	10.14	9.84	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1426	10.42	± 10% of standard	NA
ORP (mV)	240.0	247	10.73	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.37	± 10% of standard	EPA 2023
	10	10.0		
	20	20.8		
	100	99.3		

Calibration Check					
Time Start 1300		Time Finish 1307			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.01	17.8	± 0.1	GWMP
pH (SU)	7.00	7.00	17.6	± 0.1	GWMP
pH (SU)	10.00	10.06	17.6	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1420	17.9	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.13	± 10% of standard	EPA 2023
	10	10.0		
	20	20.1		
	100	100		

Notes:

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1170046
Created	2/26/2025

Sensor	**RDO**
Serial Number	1165124
Last Calibrated	2/26/2025

Calibration Details

Slope	0.90172374
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.88 mg/L
Temperature	8.49 °C
Barometric Pressure	1,005.7 mbar

Sensor	**Conductivity**
Serial Number	1170046
Last Calibrated	2/26/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.884
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1167507
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22818
Last Calibrated	2/26/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	138.4 mV
Temperature	10.47 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-13.0 mV
Temperature	10.45 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-188.9 mV
Temperature	9.84 °C

Slope and Offset 1

Slope	-49.47 mV/pH
Offset	-10.0 mV

Slope and Offset 2

Slope	-57.13 mV/pH
Offset	-9.5 mV

ORP

ORP Solution	Zobell's
Offset	-1.2 mV
Temperature	10.40 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	989619
Created	2/26/2025

Sensor	**RDO**
Serial Number	1144824
Last Calibrated	2/26/2025

Calibration Details

Slope	0.9824438
Offset	-0.00 mg/L

Calibration point 100%

Concentration	13.08 mg/L
Temperature	4.48 °C
Barometric Pressure	1,006.0 mbar

Sensor	**Conductivity**
Serial Number	989619
Last Calibrated	2/26/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.741
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	991190
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22096
Last Calibrated	2/26/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	147.9 mV
Temperature	5.69 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-16.4 mV
Temperature	6.90 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-172.3 mV
Temperature	6.43 °C

Slope and Offset 1

Slope	-53.7 mV/pH
Offset	-13.2 mV

Slope and Offset 2

Slope	-50.6 mV/pH
Offset	-13.4 mV

ORP

ORP Solution	Zobell's
Offset	7.9 mV
Temperature	7.25 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1120055
Created	2/26/2025

Sensor	**RDO**
Serial Number	1114677
Last Calibrated	2/26/2025

Calibration Details

Slope	1.0337287
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.33 mg/L
Temperature	4.69 °C
Barometric Pressure	1,003.2 mbar

Sensor	**Conductivity**
Serial Number	1120055
Last Calibrated	2/26/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.756
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1117461
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22654
Last Calibrated	2/26/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	156.6 mV
Temperature	5.69 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-13.3 mV
Temperature	6.15 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-169.3 mV
Temperature	5.96 °C

Slope and Offset 1

Slope	-55.52 mV/pH
Offset	-9.9 mV

Slope and Offset 2

Slope	-50.66 mV/pH
Offset	-10.2 mV

ORP

ORP Solution	ORP Standard
Offset	-2.9 mV
Temperature	6.25 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	966105
Created	2/26/2025

Sensor	**RDO**
Serial Number	1166140
Last Calibrated	2/26/2025

Calibration Details

Slope	0.994795
Offset	-0.00 mg/L

Calibration point 100%

Concentration	12.38 mg/L
Temperature	6.05 °C
Barometric Pressure	1,004.2 mbar

Sensor	**Conductivity**
Serial Number	966105
Last Calibrated	2/26/2025

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.953
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	965576
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22025
Last Calibrated	2/26/2025

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	141.1 mV
Temperature	8.80 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-6.7 mV
Temperature	9.80 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-187.3 mV
Temperature	10.45 °C

Slope and Offset 1

Slope	-48.32 mV/pH
Offset	-3.8 mV

Slope and Offset 2

Slope	-58.62 mV/pH
Offset	-3.2 mV

ORP

ORP Solution	ORP Standard
Offset	6.6 mV
Temperature	10.64 °C

APPENDIX D

Statistical Analysis Reports

GROUNDWATER STATS CONSULTING

February 28, 2025

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Pond E – August 2024 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Pond E. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, and BRGWA-6S
- **Downgradient wells:** BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- **Assessment wells:** PZ-13S, PZ-52D, PZ-53D, and PZ-70I

Data from assessment wells are evaluated for Appendix IV constituents using confidence intervals when a minimum of 4 samples is available. Data were sent electronically to GSC, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The Coal Combustion Residuals (CCR) monitoring program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

During this analysis, laboratory reporting limits changed from the previous analysis for antimony, arsenic, beryllium, cadmium, lead, lithium, selenium, and thallium. In all cases, except for thallium, the reporting limit remained below established Maximum Contaminant Limits (MCLs) and, therefore, did not affect the analysis. Since the reporting limit of 0.002 mg/L for thallium is equal to the MCL, the historical reporting limit of 0.001 mg/L was substituted across all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA

suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to

provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary (Figure C). Although outliers were screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, a few outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data in upgradient wells are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a number of statistically significant decreasing and increasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations and were in downgradient wells; therefore, they did not affect the interwell limits, and no adjustments were made to the data sets. Trend test results were included with the background screening report.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – August 2024

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2024 (Figure D). Background (upgradient) well data were reassessed for potential outliers during this analysis in order to construct a statistical limit that is conservative (i.e., lower) from a regulatory perspective and representative of present-day groundwater quality conditions. No additional values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Calcium: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Chloride: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Fluoride: BRGWC-38S
- pH (lower limit): BRGWC-33S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- Sulfate: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BRGWC-35S and BRGWC-36S
- Calcium: BRGWA-2S, BRGWA-6S (both upgradient) and BRGWC-17S
- Chloride: BRGWC-17S and BRGWC-36S
- Sulfate: BRGWC-17S

Decreasing:

- Boron: BRGWC-38S
- Calcium: BRGWC-36S and BRGWC-38S
- Chloride: BRGWA-5I and BRGWA-5S (both upgradient)
- pH: BRGWA-2I, BRGWA-2S, BRGWA-5S (all upgradient), BRGWC-33S, and BRGWC-38S
- Sulfate: BRGWC-34S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWA-5S (upgradient), BRGWC-36S, and BRGWC-38S

A summary of the trend test results follows this letter.

Evaluation of Appendix IV Parameters – August 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged and no changes to previously flagged values were made. A summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for Appendix IV constituents

(Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well with a minimum of 8 observations and each assessment well with a minimum of 4 observations (Figure H). As mentioned above, well/constituent pairs containing 100% non-detects do not require analysis.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects.

When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Note that due to the limited sample size, the lower confidence limit of a parametric confidence interval resulted in a negative number for combined radium 226 + 228 at assessment well PZ-52D. Therefore, a non-parametric confidence interval, which is bound by reported high and low measurements within a given well was constructed for this particular case and follows the confidence intervals (Figure H). This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data.

Only when the entire confidence interval is above a GWPS is the downgradient or assessment well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Statistical exceedances were identified for the following well/constituent pairs:

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Beryllium: BRGWC-38S
- Cobalt: BRGWA-2S (upgradient), BRGWA-5I (upgradient), and BRGWC-38S

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Pond E. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,





Kristina Rayner
Senior Statistician

Andrew T. Collins
Project Manager

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 11/15/2024 4:44 PM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Antimony (mg/L)
BRGWC-33S, BRGWC-34S, BRGWC-35S, PZ-13S, PZ-53D, PZ-52D, PZ-70I

Arsenic (mg/L)
BRGWC-34S, PZ-53D

Beryllium (mg/L)
BRGWC-17S, BRGWC-37S, PZ-53D, PZ-52D

Cadmium (mg/L)
BRGWC-17S, BRGWC-35S, BRGWC-37S, PZ-53D, PZ-52D, PZ-70I

Chromium (mg/L)
BRGWC-34S, PZ-53D, PZ-52D, PZ-70I

Cobalt (mg/L)
BRGWC-17S, BRGWC-36S, BRGWC-37S, PZ-53D

Lead (mg/L)
PZ-53D, PZ-52D, PZ-70I

Lithium (mg/L)
BRGWC-37S

Mercury (mg/L)
PZ-13S, PZ-53D, PZ-52D

Molybdenum (mg/L)
BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, BRGWC-38S, PZ-13S

Selenium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-37S, PZ-53D, PZ-52D

Thallium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, PZ-13S, PZ-53D, PZ-52D, PZ-70I

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	8/28/2024	0.0721	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	8/28/2024	1.25	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	8/28/2024	1.88	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	8/28/2024	2.1	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	8/28/2024	1.04	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	8/27/2024	1.31	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	8/28/2024	46.4	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	8/28/2024	369	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	8/28/2024	95.9	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	8/28/2024	59.5	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	8/28/2024	41	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	8/27/2024	26.7	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	8/28/2024	4.95	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	8/28/2024	71.7	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	8/28/2024	15.5	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	8/28/2024	6.21	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	8/28/2024	7.81	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	8/27/2024	6.53	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	8/27/2024	0.366	Yes	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.066	5.846	8/28/2024	4.51	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.066	5.846	8/28/2024	5.8	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.066	5.846	8/27/2024	5.82	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.066	5.846	8/27/2024	4.96	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	8/28/2024	188	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	8/28/2024	1230	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	8/28/2024	308	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	8/28/2024	251	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	8/28/2024	201	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	8/27/2024	233	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	176.2	n/a	8/28/2024	421	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	176.2	n/a	8/28/2024	1880	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	176.2	n/a	8/28/2024	562	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	176.2	n/a	8/28/2024	479	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	176.2	n/a	8/28/2024	389	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	176.2	n/a	8/27/2024	370	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**8/28/2024**	**0.0721**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**8/28/2024**	**1.25**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**8/28/2024**	**1.88**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**8/28/2024**	**2.1**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**8/28/2024**	**1.04**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	8/27/2024	0.015ND	No	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**8/27/2024**	**1.31**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**8/28/2024**	**46.4**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**8/28/2024**	**369**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**8/28/2024**	**95.9**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**8/28/2024**	**59.5**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**8/28/2024**	**41**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	8/27/2024	3.64	No	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	**BRGWC-38S**	**24**	**n/a**	**8/27/2024**	**26.7**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**8/28/2024**	**4.95**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**8/28/2024**	**71.7**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**8/28/2024**	**15.5**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**8/28/2024**	**6.21**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**8/28/2024**	**7.81**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	8/27/2024	1.9	No	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**8/27/2024**	**6.53**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	8/28/2024	0.218	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	8/28/2024	0.204	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	8/28/2024	0.11	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	8/28/2024	0.0609J	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	8/28/2024	0.0861J	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	8/27/2024	0.0777J	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**8/27/2024**	**0.366**	**Yes**	**110**	**n/a**	**n/a**	**49.09**	**n/a**	**n/a**	**0.0001639**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	BRGWC-17S	7.066	5.846	8/28/2024	6.49	No	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-33S**	**7.066**	**5.846**	**8/28/2024**	**4.51**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-34S	7.066	5.846	8/28/2024	6.21	No	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.066	5.846	8/28/2024	5.87	No	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-36S**	**7.066**	**5.846**	**8/28/2024**	**5.8**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-37S**	**7.066**	**5.846**	**8/27/2024**	**5.82**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-38S**	**7.066**	**5.846**	**8/27/2024**	**4.96**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**8/28/2024**	**188**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**8/28/2024**	**1230**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**8/28/2024**	**308**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**8/28/2024**	**251**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**8/28/2024**	**201**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	8/27/2024	0.279J	No	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**8/27/2024**	**233**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-17S**	**176.2**	**n/a**	**8/28/2024**	**421**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-33S**	**176.2**	**n/a**	**8/28/2024**	**1880**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**176.2**	**n/a**	**8/28/2024**	**562**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-35S**	**176.2**	**n/a**	**8/28/2024**	**479**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**176.2**	**n/a**	**8/28/2024**	**389**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-37S	176.2	n/a	8/27/2024	40	No	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**176.2**	**n/a**	**8/27/2024**	**370**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**

Appendix III Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**BRGWC-35S**	**0.1444**	**156**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02442**	**99**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-38S**	**-0.05273**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1911**	**100**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1244**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.196**	**133**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-36S**	**-1.058**	**-91**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-38S**	**-2.243**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1245**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06359**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-17S**	**0.1933**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-36S**	**0.5972**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.06454**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03038**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.0462**	**-104**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-33S**	**-0.01467**	**-99**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-38S**	**-0.07783**	**-103**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-17S**	**8.754**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-34S**	**-20.03**	**-119**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-36S**	**-12.8**	**-127**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-33.12**	**-152**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-115**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-17.68**	**-155**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-47.43**	**-166**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0002903	43	81	No	20	35	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-10	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-9	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-81	No	20	55	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-5	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0.001185	27	87	No	21	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0	-6	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	-0.01887	-25	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1444**	**156**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02442**	**99**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-38S**	**-0.05273**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.1344	17	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1911**	**100**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1912	52	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5187	-75	-81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1244**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.196**	**133**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	5.553	30	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-2.205	-72	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	1.309	69	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-36S**	**-1.058**	**-91**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-38S**	**-2.243**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.01185	-18	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.02985	28	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1245**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06359**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-14	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.1933**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-33S	3.032	76	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.09482	-16	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.05688	65	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.5972**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1582	53	81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	-0.008919	-82	-92	No	22	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.003672	76	92	No	22	54.55	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.005929	90	92	No	22	59.09	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	0	18	92	No	22	31.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0	29	92	No	22	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	-0.02414	-40	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.06454**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03038**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.008211	-26	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.0462**	**-104**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.005567	-8	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-33S**	**-0.01467**	**-99**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWC-36S	0.004314	11	87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	-0.004345	-7	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-38S**	**-0.07783**	**-103**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.308	-72	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.02433	-35	-81	No	20	30	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2157	-74	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03749	-68	-81	No	20	30	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01207	-42	-81	No	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**8.754**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-33S	7.446	17	81	No	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**BRGWC-34S**	**-20.03**	**-119**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	-0.3349	-12	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-12.8**	**-127**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-33.12**	**-152**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-9.102	-75	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.8471	-12	-81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.51	-54	-81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-115**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.988	-30	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	9.313	81	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-33S	29.74	23	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-28.14	-76	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-35S	0.1023	1	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-17.68**	**-155**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-47.43**	**-166**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 10:58 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	105	n/a	n/a	93.33	n/a	n/a	0.004581	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	105	n/a	n/a	80	n/a	n/a	0.004581	NP Inter(NDs)
Barium (mg/L)	n/a	0.063	n/a	n/a	n/a	105	n/a	n/a	0	n/a	n/a	0.004581	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	105	n/a	n/a	14.29	n/a	n/a	0.004581	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0034	n/a	n/a	n/a	103	n/a	n/a	43.69	n/a	n/a	0.005076	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.07	n/a	n/a	n/a	105	0.8336	0.3156	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.289	n/a	n/a	n/a	110	n/a	n/a	49.09	n/a	n/a	0.003545	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	105	n/a	n/a	83.81	n/a	n/a	0.004581	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	105	n/a	n/a	46.67	n/a	n/a	0.004581	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	95	n/a	n/a	89.47	n/a	n/a	0.007651	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	105	n/a	n/a	66.67	n/a	n/a	0.004581	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		2.07	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.009036**	**0.007618**	**0.004**	**Yes**	**22**	**0.008327**	**0.001321**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.0627**	**0.04122**	**0.006**	**Yes**	**22**	**0.05196**	**0.02001**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2401**	**0.1832**	**0.006**	**Yes**	**21**	**0.2116**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	21	0.0029	0.0004583	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0016	0.006	No	21	0.002573	0.0009279	80.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	21	0.002762	0.0007526	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	21	0.00279	0.0006625	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.0033	0.01	No	21	0.004296	0.001575	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.00516	0.00262	0.01	No	22	0.004396	0.001485	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	21	0.004354	0.001621	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	21	0.004388	0.001538	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.003	0.01	No	21	0.004267	0.001623	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.002956	0.001735	0.01	No	21	0.003224	0.001523	23.81	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.005	0.00388	0.01	No	7	0.00484	0.0004233	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.005	0.00368	0.01	No	4	0.00467	0.00066	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	PZ-70I	0.005	0.00366	0.01	No	5	0.004732	0.0005993	80	Kaplan-Meier	No	0.031	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04515	0.04004	2	No	21	0.0426	0.004626	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0248	0.02	2	No	22	0.02633	0.01007	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.03184	0.02501	2	No	21	0.02864	0.006462	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.04995	0.03407	2	No	21	0.04402	0.01867	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-36S	0.04044	0.02983	2	No	21	0.03556	0.0105	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02546	0.02364	2	No	21	0.02455	0.001647	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0239	0.015	2	No	21	0.02022	0.009067	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.14	0.0499	2	No	7	0.07117	0.03186	0	None	No	0.008	NP (normality)
Barium (mg/L)	PZ-52D	0.01958	0.01412	2	No	4	0.01685	0.001201	0	None	No	0.01	Param.
Barium (mg/L)	PZ-53D	0.05647	0.04833	2	No	5	0.0524	0.002431	0	None	No	0.01	Param.
Barium (mg/L)	PZ-70I	0.0444	0.0196	2	No	5	0.0259	0.01057	0	None	No	0.031	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.002062	0.001651	0.004	No	22	0.001856	0.0003824	4.545	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.000205	0.00013	0.004	No	21	0.0002299	0.0001575	23.81	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00021	0.00012	0.004	No	21	0.0002252	0.0001604	23.81	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.0005	0.00009	0.004	No	22	0.0002595	0.0002049	40.91	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.009036**	**0.007618**	**0.004**	**Yes**	**22**	**0.008327**	**0.001321**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.0004685	0.0002875	0.004	No	7	0.000378	0.00007616	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-70I	0.0003939	0.0002191	0.004	No	5	0.0003452	0.000101	20	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0005192	0.0003465	0.005	No	22	0.0004329	0.0001608	4.545	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0003641	0.000183	0.005	No	21	0.0005332	0.0003571	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.001	0.0001	0.005	No	22	0.0009173	0.0002678	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005763	0.0004582	0.005	No	21	0.0005172	0.000107	4.762	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.001	0.00011	0.005	No	7	0.0008729	0.0003364	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.01232	0.01007	0.1	No	21	0.01126	0.002158	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.01	0.00049	0.1	No	22	0.009568	0.002028	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006421	0.004664	0.1	No	21	0.005542	0.001592	4.762	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.008023	0.006976	0.1	No	21	0.0075	0.0009489	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.01	0.0014	0.1	No	21	0.004743	0.004229	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004016	0.003375	0.1	No	21	0.003648	0.0006885	0	None	x^2	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02171	0.01009	0.1	No	7	0.0159	0.004894	0	None	No	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.0627**	**0.04122**	**0.006**	**Yes**	**22**	**0.05196**	**0.02001**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.004777	0.003515	0.006	No	21	0.004218	0.001272	4.762	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0012	0.0008	0.006	No	21	0.001	0.0003619	76.19	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2401**	**0.1832**	**0.006**	**Yes**	**21**	**0.2116**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.001	0.00037	0.006	No	7	0.00091	0.0002381	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	PZ-52D	0.002657	0	0.006	No	5	0.001135	0.0009084	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-70I	0.0056	0.000682	0.006	No	5	0.001724	0.002168	0	None	No	0.031	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	1.005	0.4346	5	No	21	0.7199	0.5171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.683	0.7636	5	No	21	1.223	0.8332	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.391	0.8114	5	No	21	1.142	0.613	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.565	0.6026	5	No	21	1.204	1.005	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.851	0.8135	5	No	21	1.444	1.139	0	None	sqrt(x)	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	1.083	0.4672	5	No	21	0.8428	0.6157	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.617	2.042	5	No	21	2.949	1.557	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	4.207	0.03982	5	No	7	2.124	1.754	14.29	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	5.39	1.14	5	No	4	3.603	2.114	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-53D	4.167	2.073	5	No	5	3.12	0.6249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-70I	4.35	1.25	5	No	5	2.106	1.27	0	None	No	0.031	NP (normality)
Fluoride (mg/L)	BRGWC-17S	0.1949	0.09919	4	No	22	0.1563	0.1046	4.545	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2153	0.1184	4	No	23	0.1758	0.1018	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1372	0.08244	4	No	22	0.1204	0.07483	4.545	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1332	0.06337	4	No	22	0.1185	0.09687	13.64	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.1558	0.05696	4	No	22	0.1301	0.1055	40.91	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.1	0.059	4	No	22	0.08183	0.0276	36.36	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9108	0.675	4	No	22	0.7929	0.2196	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.1648	0.04415	4	No	7	0.1114	0.05361	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-52D	2.144	0.838	4	No	5	1.59	0.8123	0	None	x^5	0.01	Param.
Fluoride (mg/L)	PZ-53D	0.3691	0.04531	4	No	5	0.2072	0.09661	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-70I	1.43	0.1	4	No	5	0.3934	0.5821	40	None	No	0.031	NP (normality)
Lead (mg/L)	BRGWC-17S	0.002	0.0001	0.015	No	21	0.001817	0.0005785	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.002	0.000088	0.015	No	22	0.0009671	0.0009658	45.45	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.002	0.0003	0.015	No	21	0.001738	0.0006596	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.002	0.0002	0.015	No	21	0.001644	0.0007527	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.002	0.000047	0.015	No	21	0.001907	0.0004262	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.002	0.0001	0.015	No	21	0.001819	0.0005715	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.002	0.00035	0.015	No	21	0.0009286	0.0007779	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.002	0.00035	0.015	No	7	0.001764	0.0006236	85.71	None	No	0.008	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.01	0.001	0.089	No	21	0.006993	0.004358	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01045	0.009382	0.089	No	22	0.009917	0.0009973	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.01	0.0009	0.089	No	21	0.00739	0.004228	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	21	0.00401	0.003432	23.81	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.01	0.0024	0.089	No	21	0.00461	0.003495	28.57	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02234	0.02035	0.089	No	21	0.02134	0.001808	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.01	0.001	0.089	No	7	0.007529	0.004226	71.43	None	No	0.008	NP (NDs)
Lithium (mg/L)	PZ-52D	0.01985	0.01485	0.089	No	4	0.01735	0.001103	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-53D	0.02091	0.01649	0.089	No	5	0.0187	0.001317	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-70I	0.00615	0.00381	0.089	No	5	0.004296	0.001037	0	None	No	0.031	NP (normality)
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	19	0.0001813	0.00004496	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	20	0.0001815	0.00004705	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00015	0.002	No	19	0.0001779	0.00004837	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	19	0.0001847	0.00003762	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	19	0.0001842	0.00003878	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	19	0.0001847	0.00003864	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0002	0.000085	0.002	No	19	0.0001488	0.00005061	26.32	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-70I	0.00309	0	0.002	No	5	0.001224	0.001245	40	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.02736	0.002902	0.1	No	4	0.01513	0.005386	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-53D	0.002697	0.001743	0.1	No	5	0.00222	0.0002848	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-70I	0.00142	0.001	0.1	No	5	0.001084	0.0001878	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	BRGWC-17S	0.002589	0.001895	0.05	No	21	0.002864	0.001225	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.00572	0.0032	0.05	No	22	0.005665	0.004963	40.91	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.004466	0.002613	0.05	No	21	0.003671	0.001846	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.03859	0.02876	0.05	No	21	0.03368	0.008915	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003208	0.001655	0.05	No	7	0.002431	0.0006537	14.29	None	No	0.01	Param.
Selenium (mg/L)	PZ-70I	0.009655	0.005765	0.05	No	5	0.00771	0.001161	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.001	0.000066	0.002	No	21	0.0009555	0.0002038	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.001	0.00019	0.002	No	22	0.0004514	0.000384	31.82	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.001	0.0002	0.002	No	21	0.0005681	0.0003867	42.86	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/19/2024, 9:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004375**	**-145**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02087**	**-172**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/19/2024, 9:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004375**	**-145**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-64	-66	No	21	57.14	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	25	66	No	21	71.43	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	21	66	No	21	76.19	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-33S	-0.003636	-31	-71	No	22	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-38S**	**-0.02087**	**-172**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**

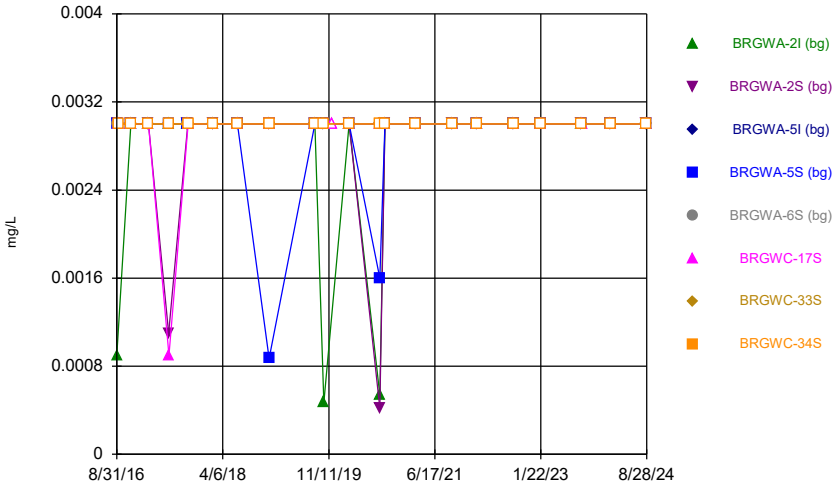
Table of Contents

Figure A. Time Series	25
Figure B. Box Plots	79
Figure C. Outlier Summary	91
Figure D. Appendix III Interwell Prediction Limits	93
Figure E. Appendix III Trend Tests	126
Figure F. Upper Tolerance Limits	149
Figure G. Groundwater Protection Standards	174
Figure H. Appendix IV Confidence Intervals	176
Figure I. Appendix IV Trend Test	211

FIGURE A.

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

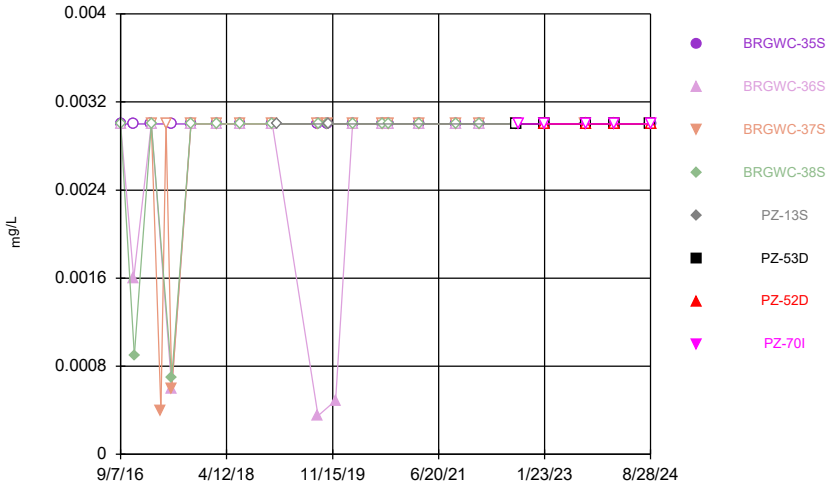
Time Series



Constituent: Antimony Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

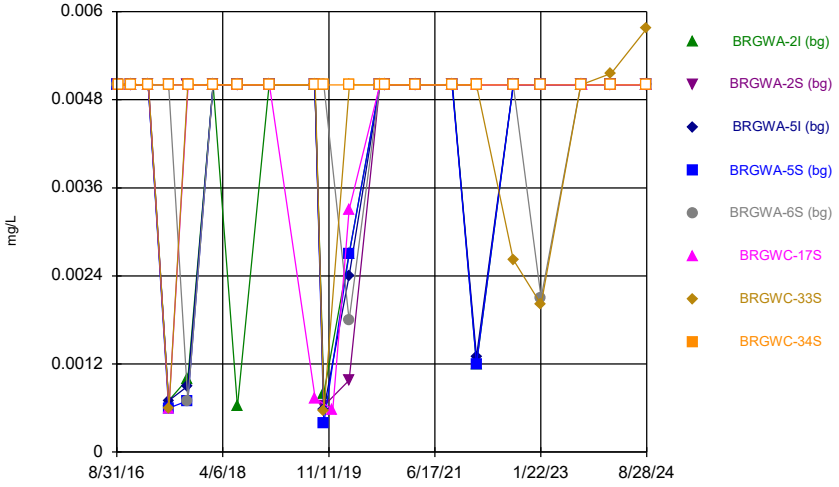
Time Series



Constituent: Antimony Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

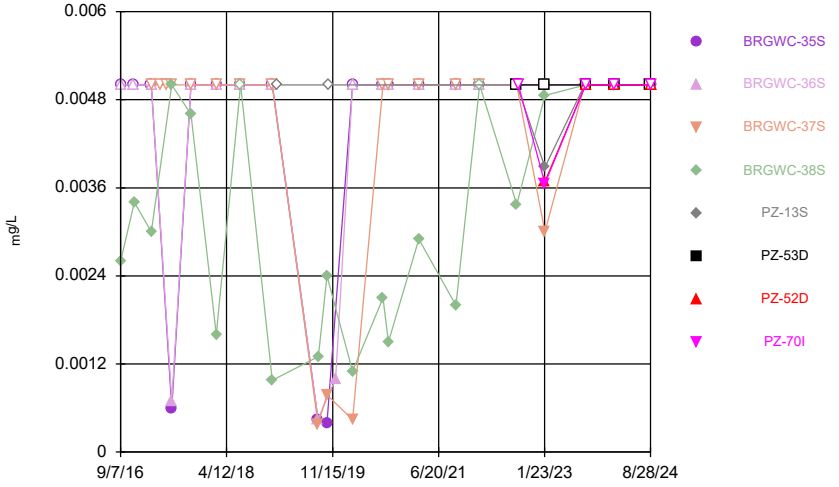
Time Series



Constituent: Arsenic Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

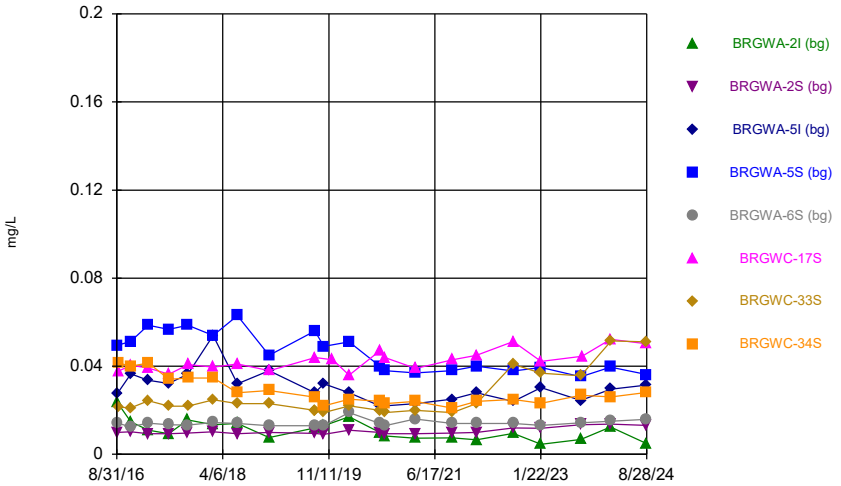
Time Series



Constituent: Arsenic Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

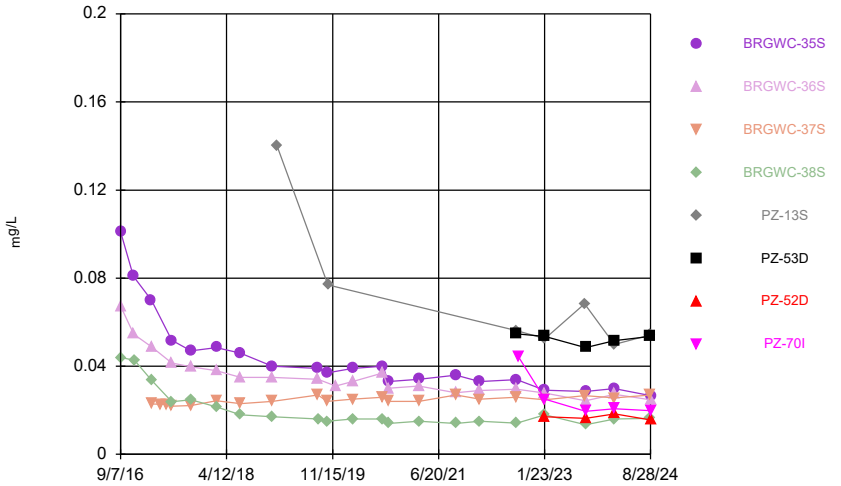
Time Series



Constituent: Barium Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

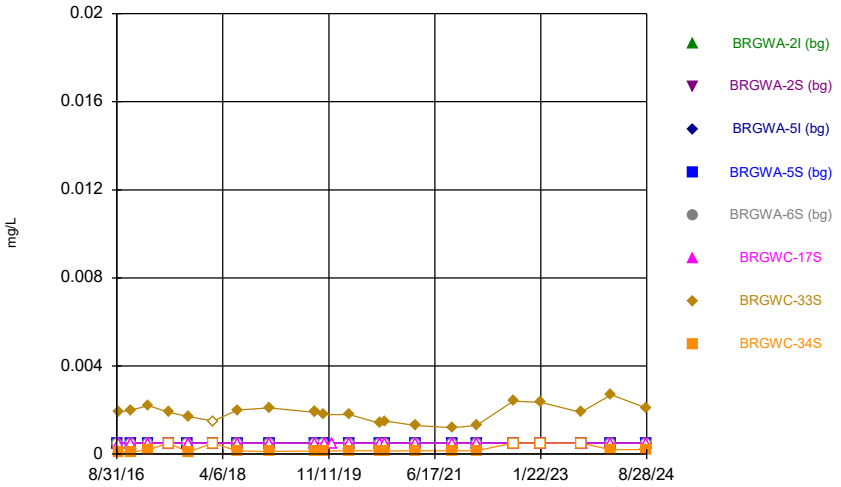
Time Series



Constituent: Barium Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

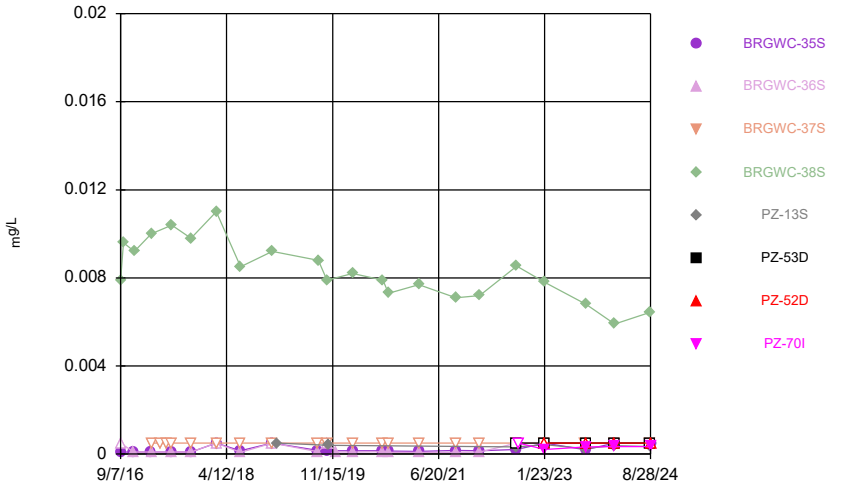
Time Series



Constituent: Beryllium Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

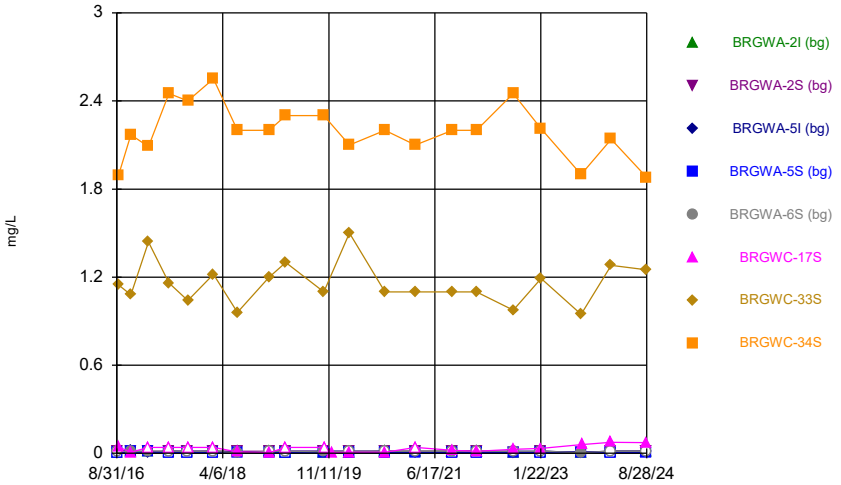
Time Series



Constituent: Beryllium Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

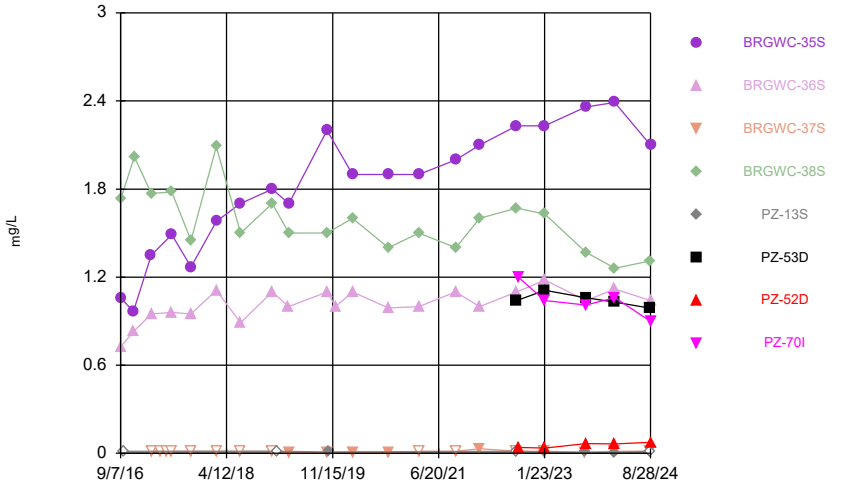
Time Series



Constituent: Boron Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

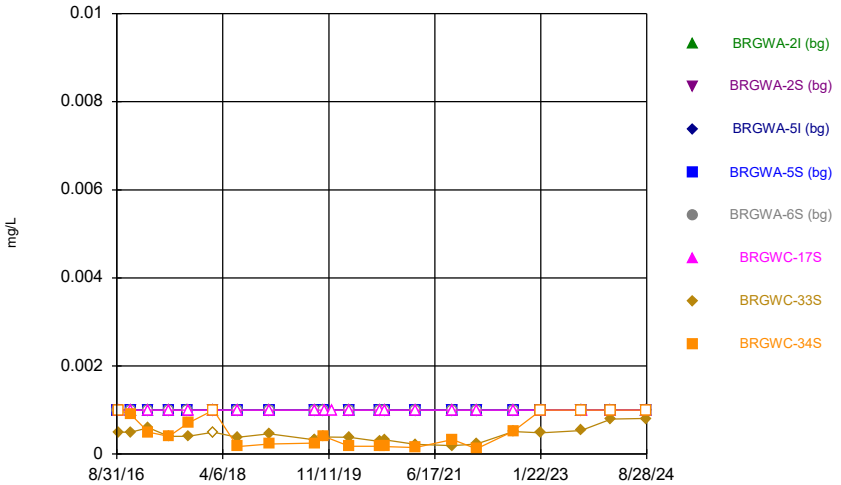
Time Series



Constituent: Boron Analysis Run 11/18/2024 11:12 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

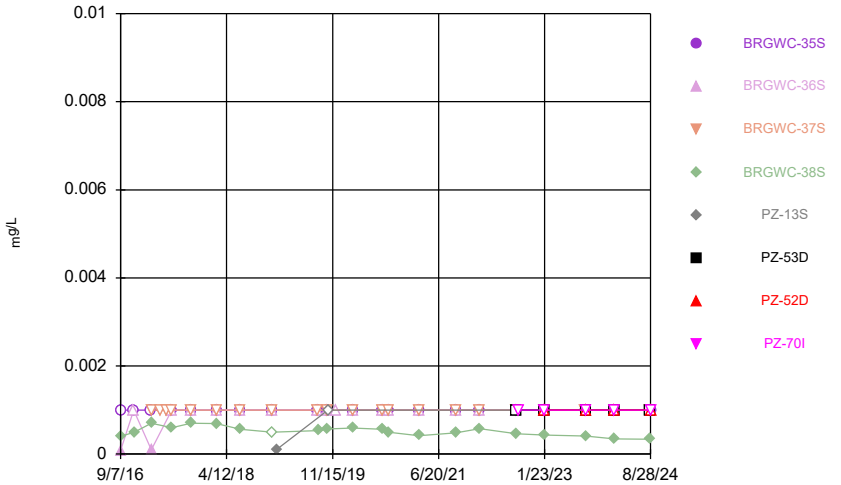
Time Series



Constituent: Cadmium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

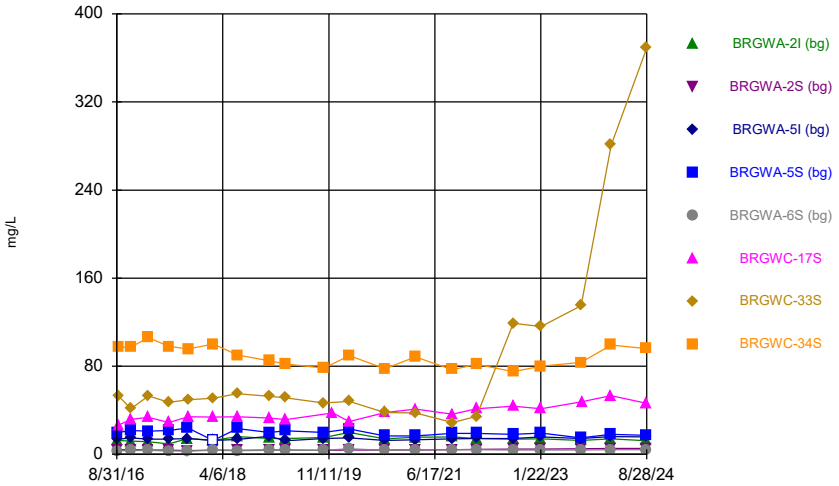
Time Series



Constituent: Cadmium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

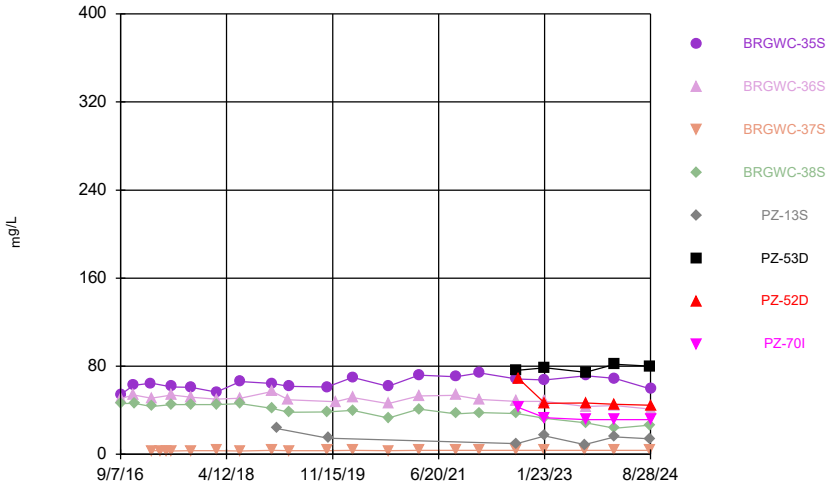
Time Series



Constituent: Calcium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

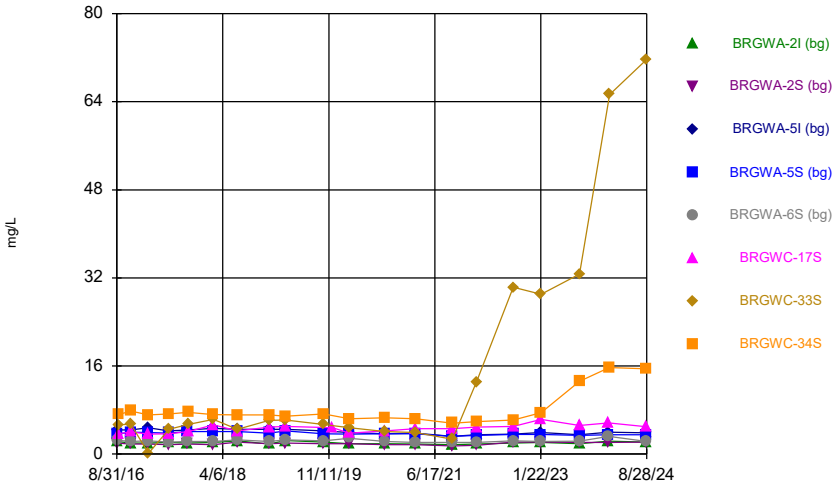
Time Series



Constituent: Calcium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

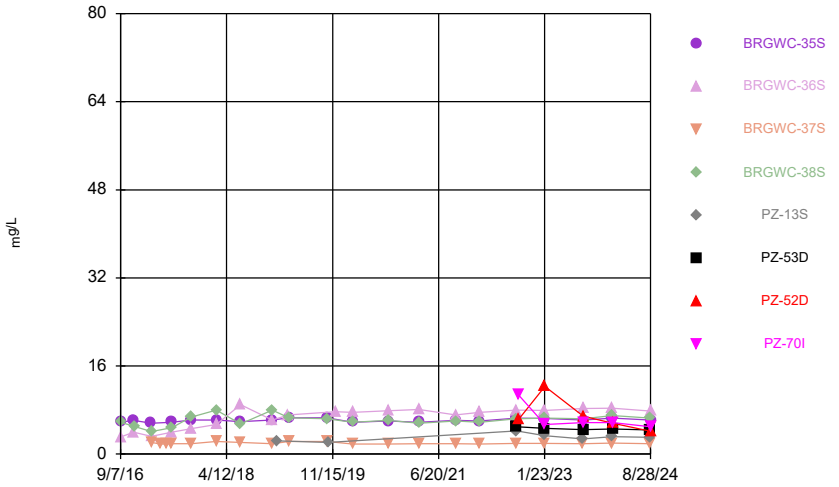
Time Series



Constituent: Chloride Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

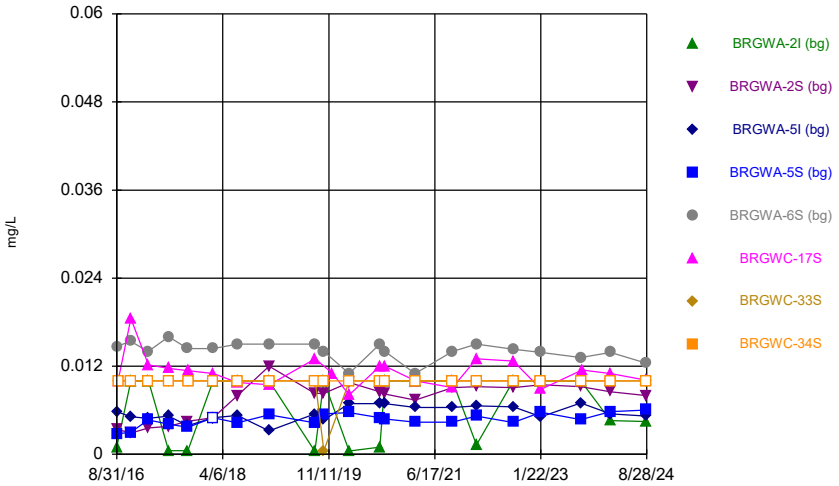
Time Series



Constituent: Chloride Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

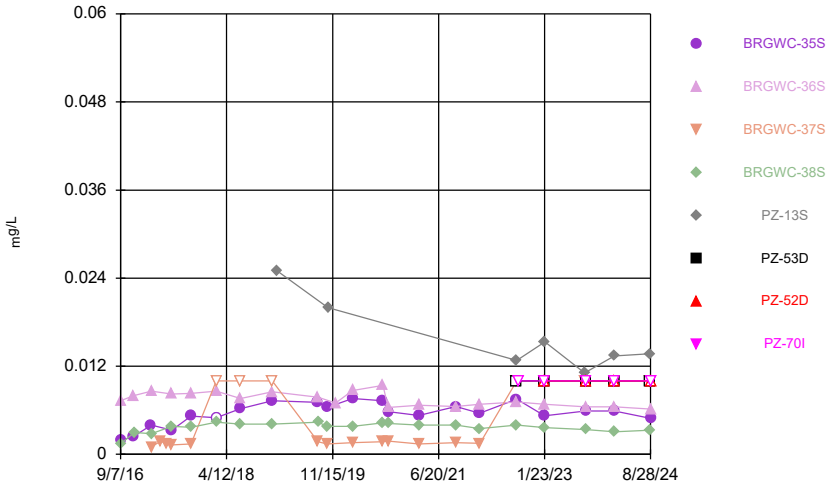
Time Series



Constituent: Chromium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

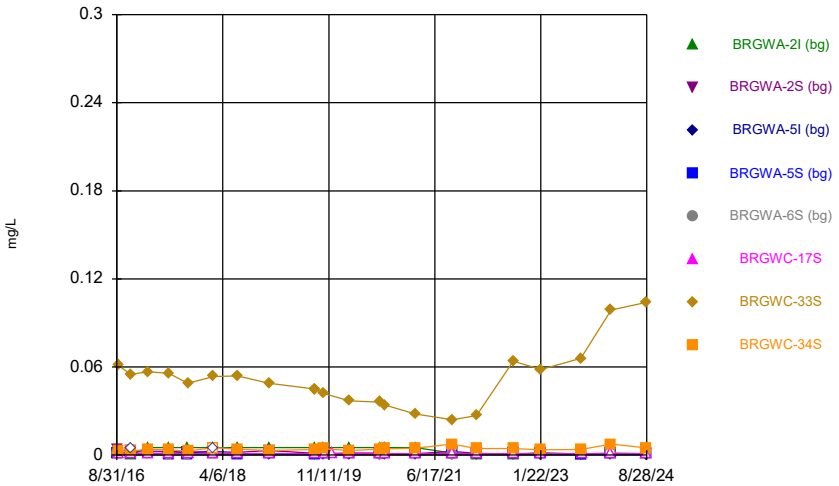
Time Series



Constituent: Chromium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

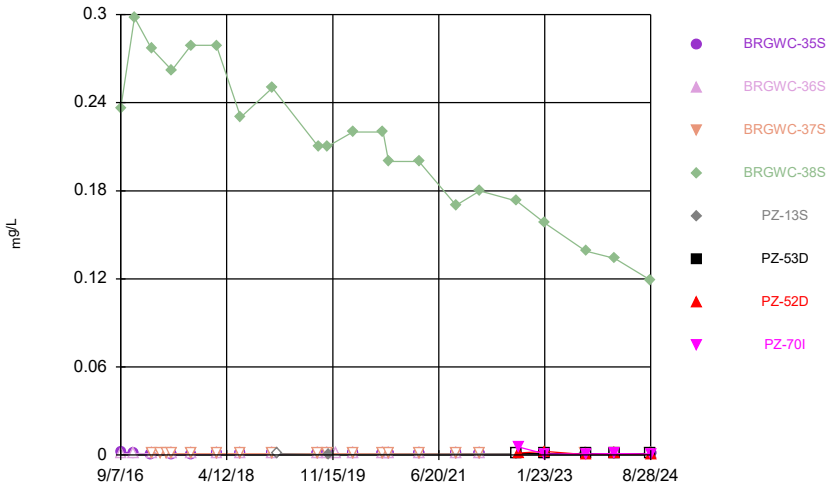
Time Series



Constituent: Cobalt Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

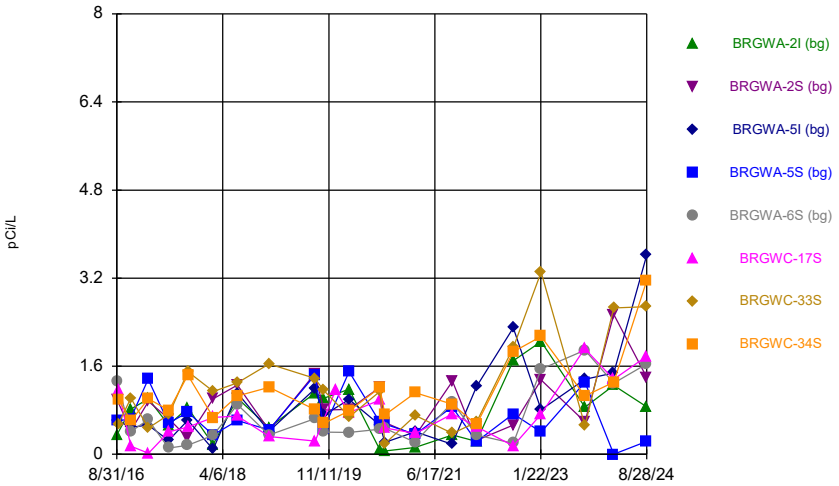
Time Series



Constituent: Cobalt Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

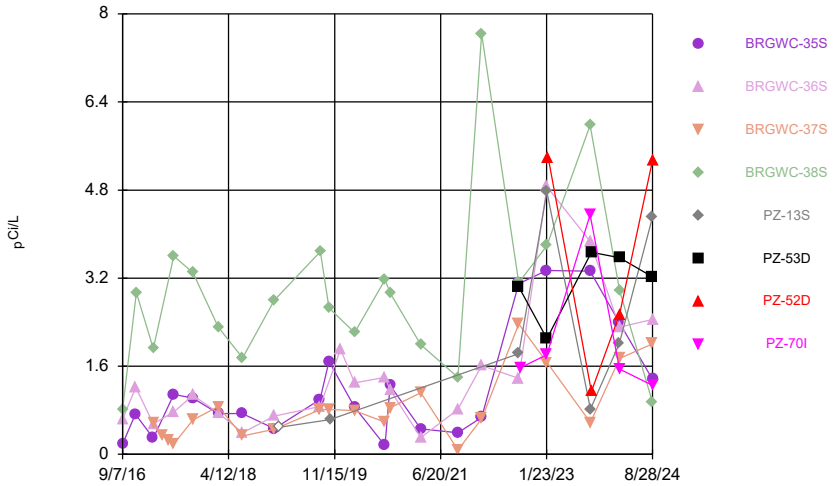
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

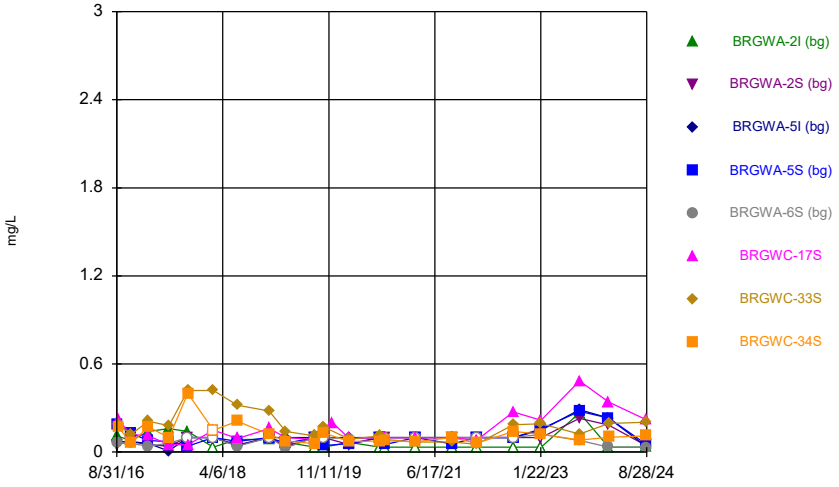
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

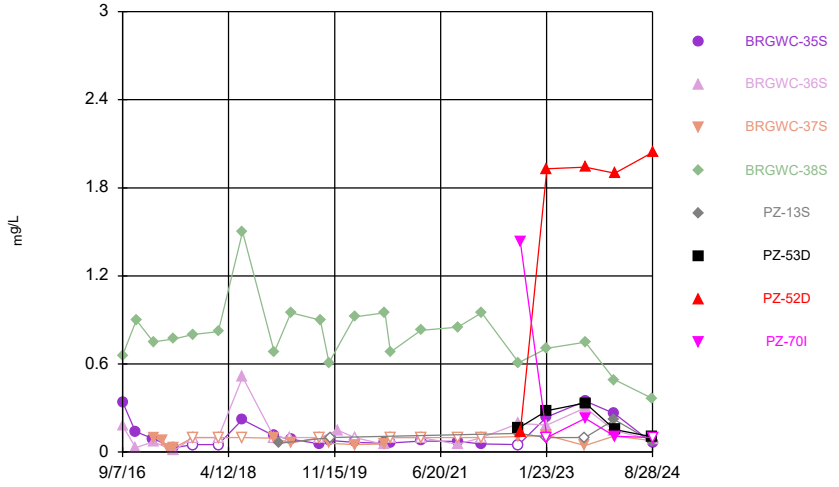
Time Series



Constituent: Fluoride Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

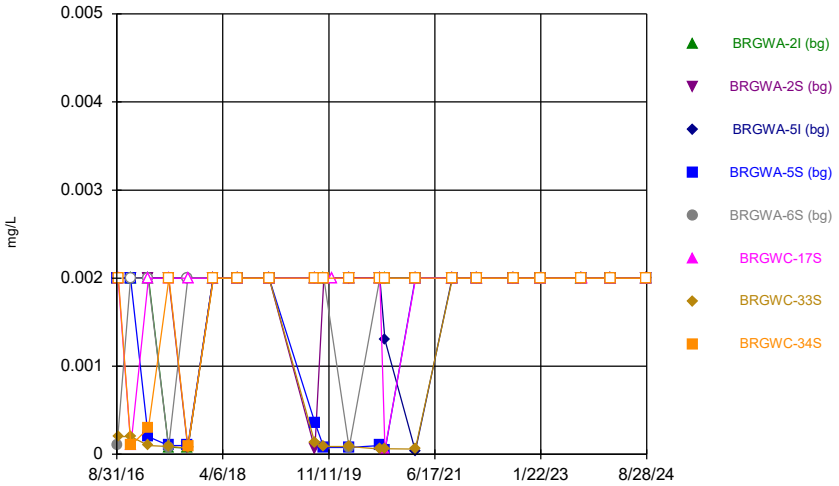
Time Series



Constituent: Fluoride Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

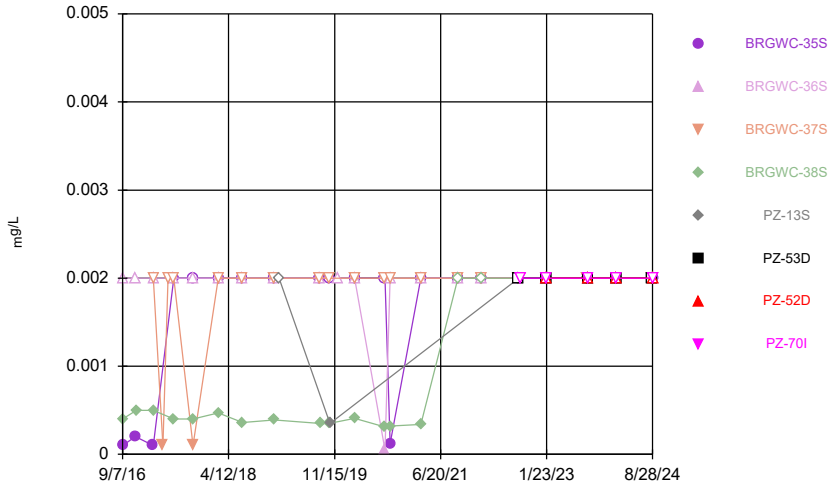
Time Series



Constituent: Lead Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

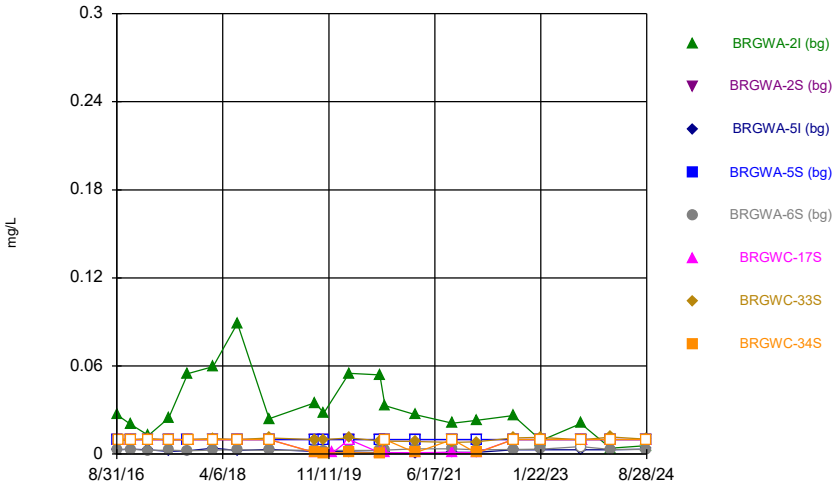
Time Series



Constituent: Lead Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

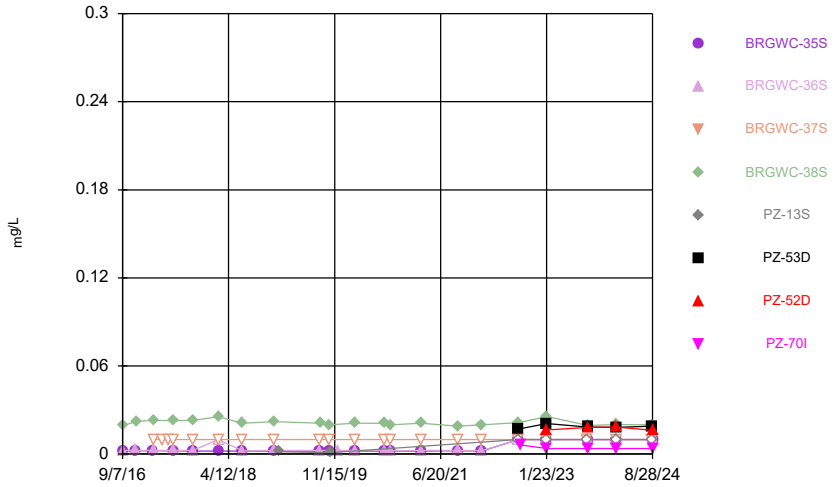
Time Series



Constituent: Lithium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

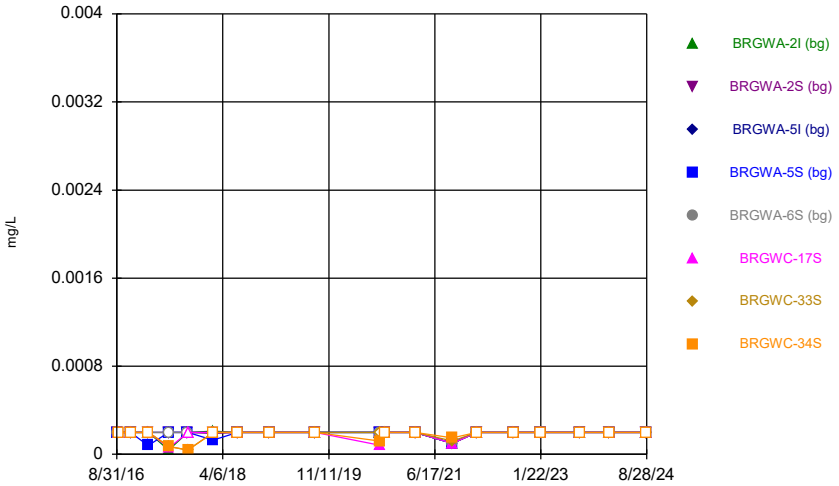
Time Series



Constituent: Lithium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

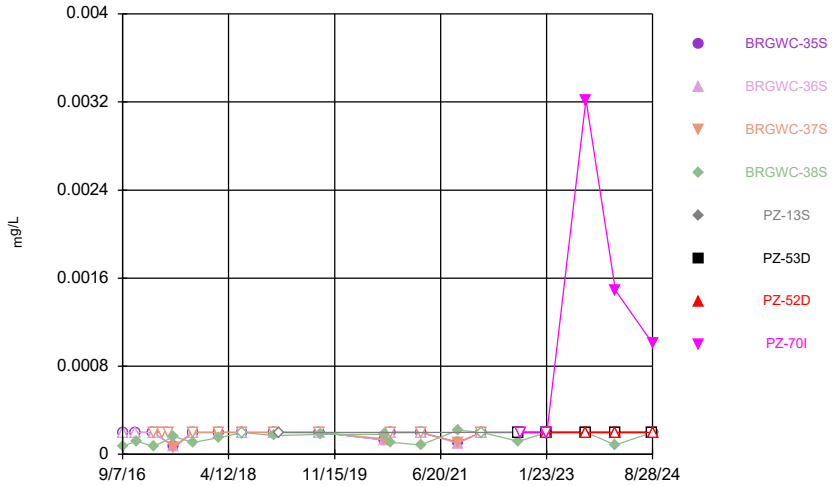
Time Series



Constituent: Mercury Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

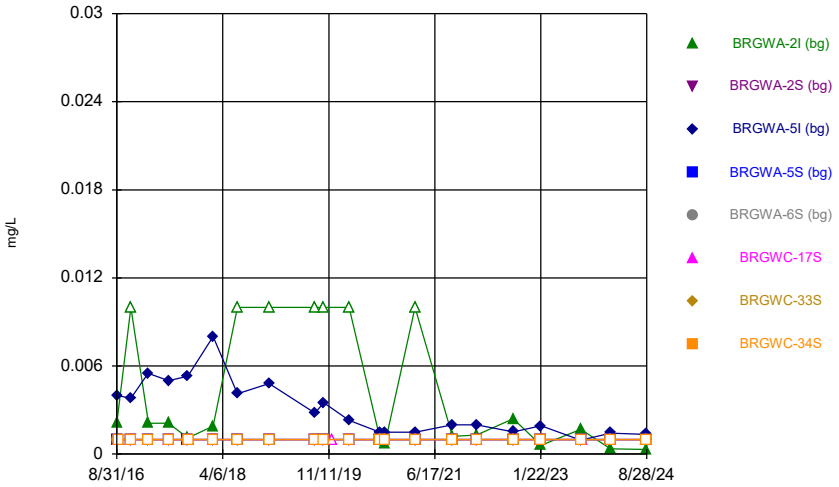
Time Series



Constituent: Mercury Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

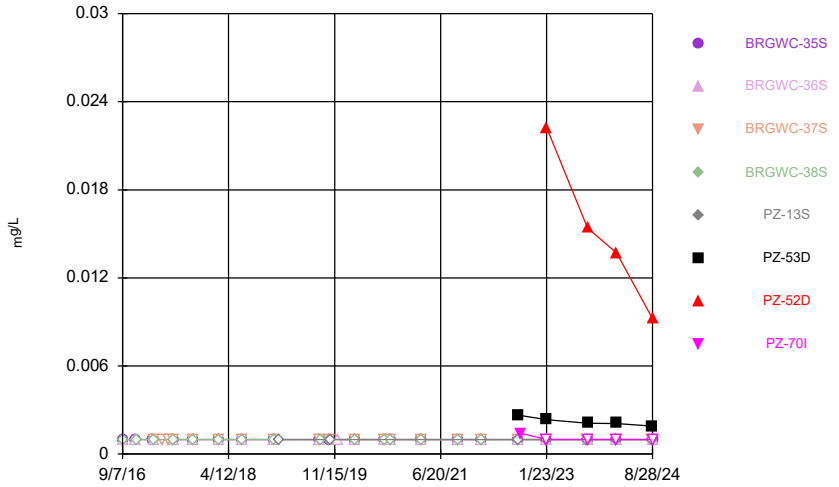
Time Series



Constituent: Molybdenum Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

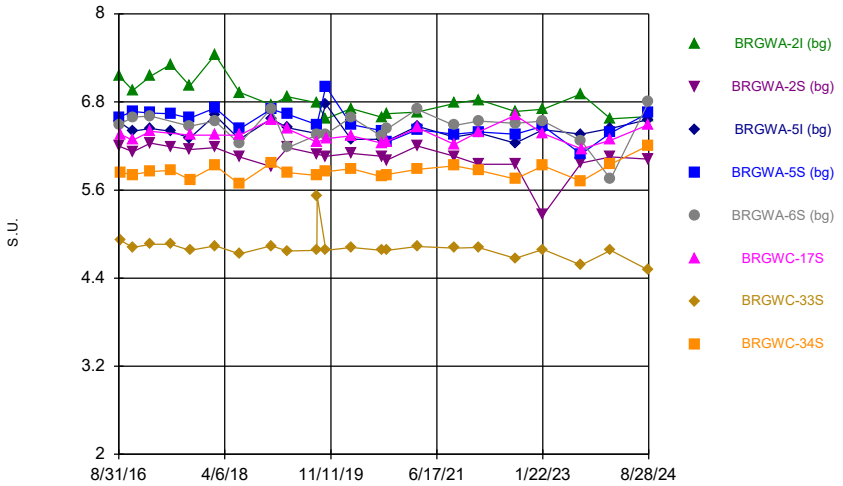
Time Series



Constituent: Molybdenum Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

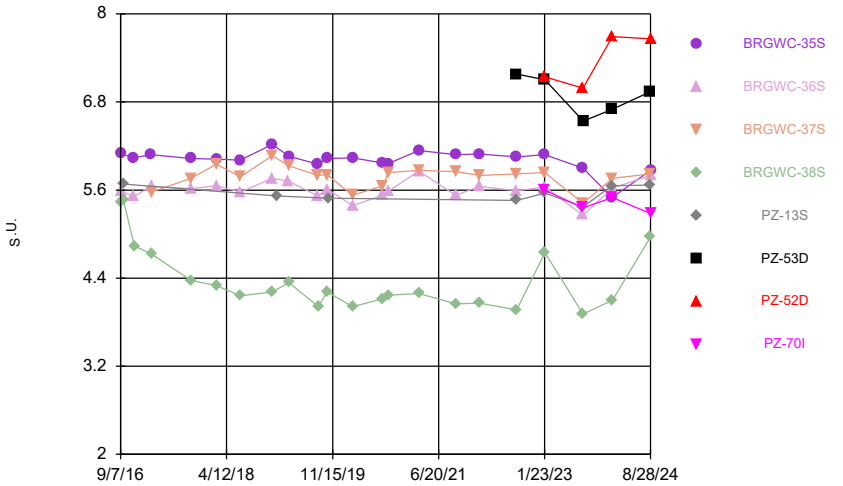
Time Series



Constituent: pH, Field Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

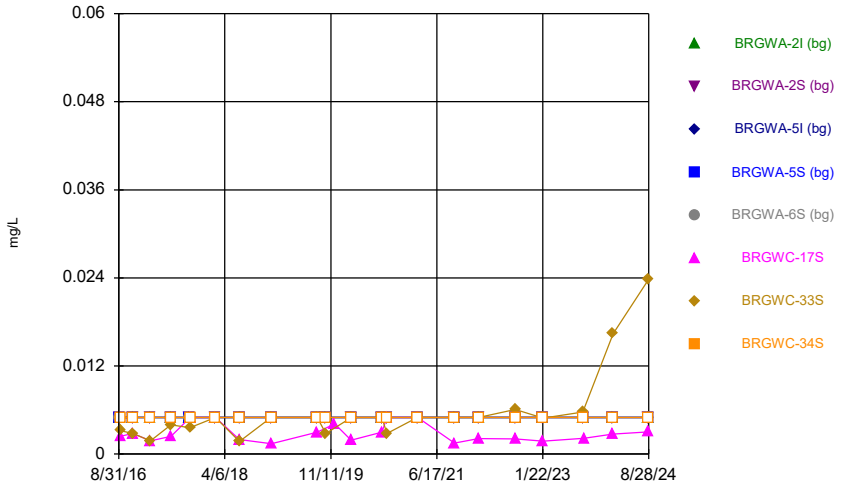
Time Series



Constituent: pH, Field Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

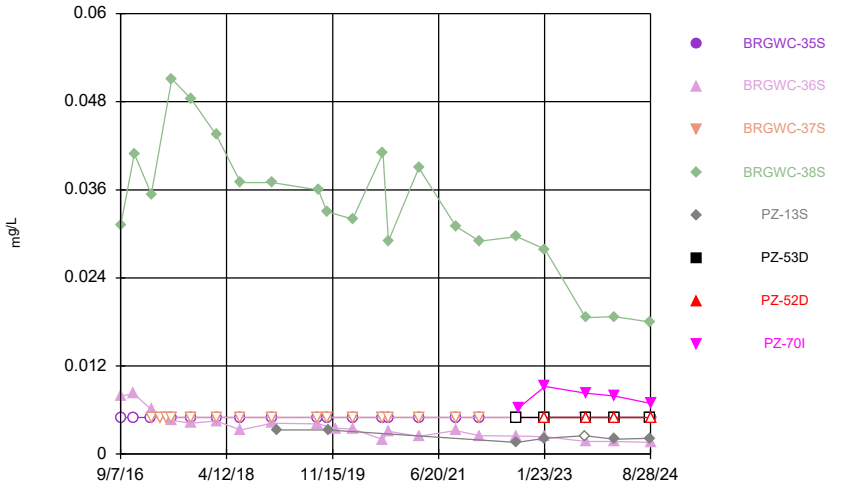
Time Series



Constituent: Selenium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

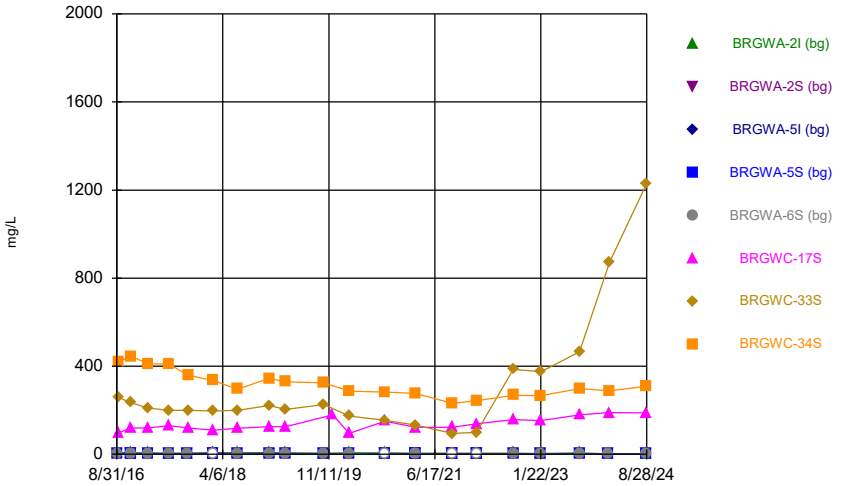
Time Series



Constituent: Selenium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

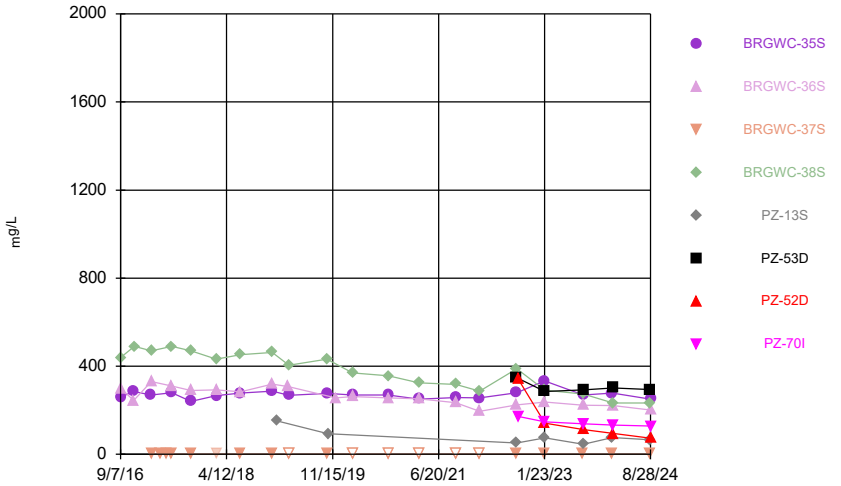
Time Series



Constituent: Sulfate Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

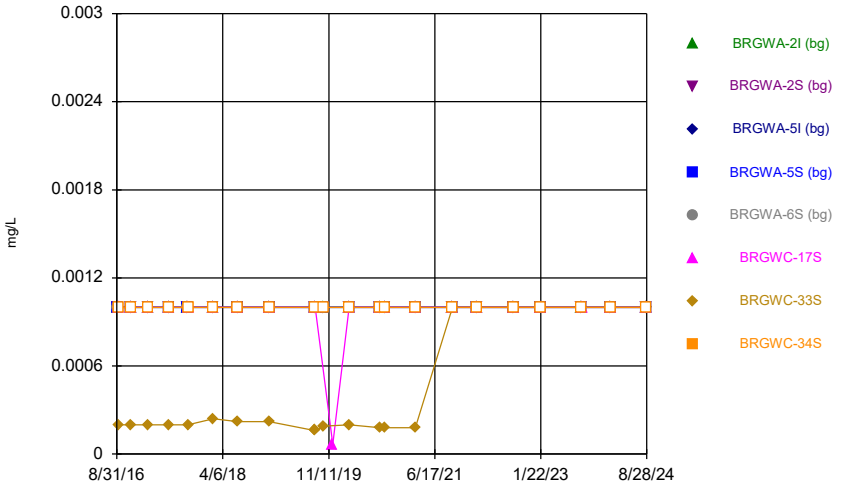
Time Series



Constituent: Sulfate Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

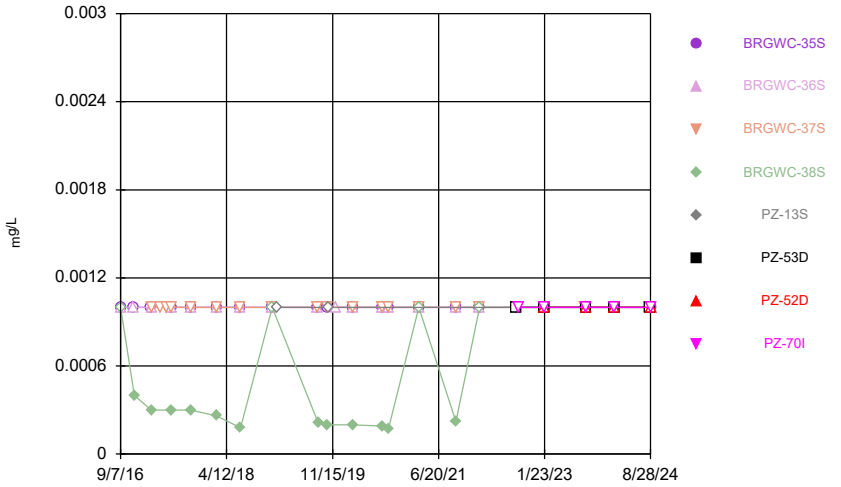
Time Series



Constituent: Thallium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

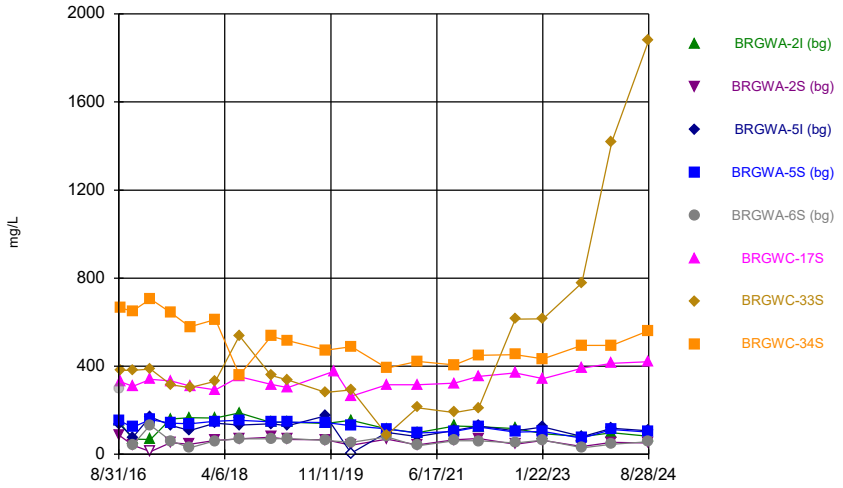
Time Series



Constituent: Thallium Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

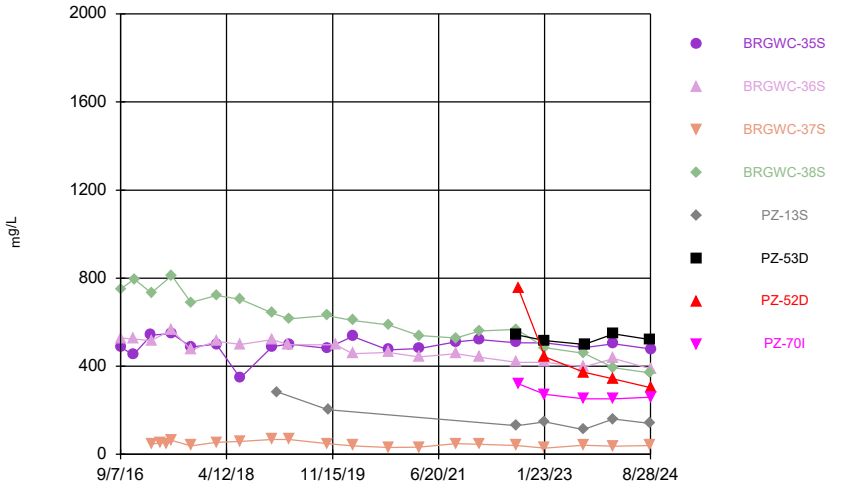
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/18/2024 11:13 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0009 (J)	<0.003	<0.003	<0.003				
9/1/2016					<0.003			
9/7/2016						<0.003	<0.003	
9/8/2016								<0.003
11/15/2016				<0.003	<0.003			
11/16/2016	<0.003	<0.003	<0.003					
11/17/2016						<0.003	<0.003	<0.003
2/20/2017			<0.003	<0.003	<0.003			
2/21/2017	<0.003	<0.003						
2/22/2017						<0.003	<0.003	<0.003
6/12/2017	<0.003		<0.003	<0.003	<0.003			
6/13/2017		0.0011 (J)						
6/14/2017							<0.003	<0.003
6/15/2017						0.0009 (J)		
9/26/2017	<0.003	<0.003	<0.003	<0.003	<0.003			
9/27/2017							<0.003	<0.003
9/28/2017						<0.003		
2/13/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
2/15/2018						<0.003	<0.003	<0.003
6/26/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
6/27/2018						<0.003	<0.003	<0.003
12/18/2018	<0.003	<0.003	<0.003	0.00087 (J)	<0.003		<0.003	<0.003
12/19/2018						<0.003		
8/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/28/2019						<0.003	<0.003	<0.003
10/15/2019	0.00047 (J)	<0.003	<0.003	<0.003	<0.003			
10/16/2019							<0.003	<0.003
12/3/2019						<0.003		
3/3/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
3/5/2020							<0.003	<0.003
8/18/2020	0.00054 (J)	0.00042 (J)	<0.003	0.0016 (J)	<0.003			
8/19/2020						<0.003	<0.003	<0.003
9/15/2020	<0.003	<0.003	<0.003	<0.003	<0.003			
9/16/2020						<0.003	<0.003	<0.003
3/1/2021	<0.003				<0.003			
3/2/2021		<0.003	<0.003	<0.003				
3/3/2021							<0.003	<0.003
3/4/2021						<0.003		
9/21/2021			<0.003	<0.003				
9/22/2021	<0.003	<0.003			<0.003	<0.003	<0.003	<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/23/2022	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/24/2022						<0.003		<0.003
1/24/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2023	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
9/6/2023						<0.003		
2/10/2024	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
2/13/2024							<0.003	<0.003
8/27/2024	<0.003	<0.003	<0.003	<0.003	<0.003			
8/28/2024						<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.003	<0.003		<0.003				
11/17/2016	<0.003							
11/18/2016		0.0016 (J)						
11/21/2016				0.0009 (J)				
2/22/2017	<0.003							
2/23/2017		<0.003	<0.003	<0.003				
4/17/2017			0.0004 (J)					
5/15/2017			<0.003					
6/15/2017	<0.003	0.0006 (J)	0.0006 (J)	0.0007 (J)				
9/28/2017	<0.003	<0.003	<0.003	<0.003				
2/15/2018	<0.003	<0.003	<0.003	<0.003				
6/27/2018	<0.003							
6/28/2018		<0.003	<0.003	<0.003				
12/19/2018	<0.003	<0.003	<0.003					
12/20/2018				<0.003				
1/15/2019					<0.003			
8/28/2019	<0.003	0.00035 (J)	<0.003					
8/29/2019				<0.003				
10/16/2019	<0.003		<0.003	<0.003				
10/22/2019					<0.003			
12/3/2019		0.00049 (J)						
3/5/2020	<0.003	<0.003	<0.003	<0.003				
8/19/2020	<0.003	<0.003	<0.003	<0.003				
9/16/2020	<0.003	<0.003	<0.003					
9/17/2020				<0.003				
3/3/2021		<0.003	<0.003					
3/4/2021	<0.003			<0.003				
9/22/2021		<0.003						
9/23/2021	<0.003		<0.003	<0.003				
2/1/2022	<0.003	<0.003		<0.003				
2/2/2022			<0.003					
8/23/2022			<0.003	<0.003	<0.003	<0.003		
8/24/2022	<0.003	<0.003						
9/1/2022								<0.003
1/24/2023	<0.003							
1/25/2023		<0.003	<0.003	<0.003		<0.003	<0.003	
1/26/2023					<0.003			<0.003
8/31/2023			<0.003		<0.003			
9/6/2023	<0.003	<0.003		<0.003		<0.003	<0.003	<0.003
2/10/2024	<0.003				<0.003			
2/13/2024		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003
8/27/2024			<0.003	<0.003	<0.003	<0.003		
8/28/2024	<0.003	<0.003					<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005			
9/7/2016						<0.005	<0.005	
9/8/2016								<0.005
11/15/2016				<0.005	<0.005			
11/16/2016	<0.005	<0.005	<0.005					
11/17/2016						<0.005	<0.005	<0.005
2/20/2017			<0.005	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017						<0.005	<0.005	<0.005
6/12/2017	0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.005			
6/13/2017		<0.005						
6/14/2017							0.0006 (J)	<0.005
6/15/2017						0.0006 (J)		
9/26/2017	0.001 (J)	<0.005	0.0009 (J)	0.0007 (J)	0.0007 (J)			
9/27/2017							<0.005	<0.005
9/28/2017						<0.005		
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2018						<0.005	<0.005	<0.005
6/26/2018	0.00062 (J)	<0.005	<0.005	<0.005	<0.005			
6/27/2018						<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005 (X)	<0.005 (X)	<0.005 (X)	<0.005 (X)		<0.005 (X)	<0.005
12/19/2018						<0.005		
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
8/28/2019						0.00073 (J)	<0.005	<0.005
10/15/2019	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.005			
10/16/2019							0.00056 (J)	<0.005
12/3/2019						0.00058 (J)		
3/3/2020	0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)	0.0033 (J)		
3/5/2020							<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/19/2020						<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
9/16/2020						<0.005	<0.005	<0.005
3/1/2021	<0.005				<0.005			
3/2/2021		<0.005	<0.005	<0.005				
3/3/2021							<0.005	<0.005
3/4/2021						<0.005		
9/21/2021			<0.005	<0.005				
9/22/2021	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
2/1/2022	0.0012 (J)	<0.005	0.0013 (J)	0.0012 (J)	<0.005	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005		0.00262 (J)	
8/24/2022						<0.005		<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005	0.00201 (J)	<0.005
8/31/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
9/6/2023						<0.005		
2/10/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
2/13/2024							0.00516	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005			
8/28/2024						<0.005	0.00577	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.005	<0.005		0.0026 (J)				
11/17/2016	<0.005							
11/18/2016		<0.005						
11/21/2016				0.0034 (J)				
2/22/2017	<0.005							
2/23/2017		<0.005	<0.005	0.003 (J)				
4/17/2017			<0.005					
5/15/2017			<0.005					
6/15/2017	0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)				
9/28/2017	<0.005	<0.005	<0.005	0.0046 (J)				
2/15/2018	<0.005	<0.005	<0.005	0.0016 (J)				
6/27/2018	<0.005							
6/28/2018		<0.005 (X)	<0.005 (X)	<0.005 (X)				
12/19/2018	<0.005	<0.005	<0.005					
12/20/2018				0.00098 (J)				
1/15/2019					<0.005			
8/28/2019	0.00044 (J)	0.00045 (J)	0.00038 (J)					
8/29/2019				0.0013 (J)				
10/16/2019	0.0004 (J)		0.00078 (J)	0.0024 (J)				
10/22/2019					<0.005			
12/3/2019		0.001 (J)						
3/5/2020	<0.005	<0.005	0.00044 (J)	0.0011 (J)				
8/19/2020	<0.005	<0.005	<0.005	0.0021 (J)				
9/16/2020	<0.005	<0.005	<0.005					
9/17/2020				0.0015 (J)				
3/3/2021		<0.005	<0.005					
3/4/2021	<0.005			0.0029 (J)				
9/22/2021		<0.005						
9/23/2021	<0.005		<0.005	0.002 (J)				
2/1/2022	<0.005	<0.005		<0.005				
2/2/2022			<0.005					
8/23/2022			<0.005	0.00337 (J)	<0.005	<0.005		
8/24/2022	<0.005	<0.005						
9/1/2022								<0.005
1/24/2023	<0.005							
1/25/2023		<0.005	0.003 (J)	0.00486 (J)		<0.005	0.00368 (J)	
1/26/2023					0.00388 (J)			0.00366 (J)
8/31/2023			<0.005		<0.005			
9/6/2023	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005
2/10/2024	<0.005				<0.005			
2/13/2024		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
8/27/2024			<0.005	<0.005	<0.005	<0.005		
8/28/2024	<0.005	<0.005					<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0239	0.0099 (J)	0.0273	0.0495				
9/1/2016					0.0142			
9/7/2016						0.0377	0.0214	
9/8/2016								0.0415
11/15/2016				0.0512	0.0126			
11/16/2016	0.0147	0.0102	0.0365					
11/17/2016						0.0405	0.0211	0.04
2/20/2017			0.0336	0.0586	0.0142			
2/21/2017	0.0109	0.0094 (J)						
2/22/2017						0.0392	0.0243	0.0415
6/12/2017	0.0094 (J)		0.0322	0.0567	0.0134			
6/13/2017		0.0094 (J)						
6/14/2017							0.0218	0.0341
6/15/2017						0.0364		
9/26/2017	0.0156	0.0096 (J)	0.0364	0.0586	0.0133			
9/27/2017							0.0219	0.0347
9/28/2017						0.0408		
2/13/2018	0.0134	0.0102	0.054	0.054	0.0145			
2/15/2018						0.0396	0.0248	0.0346
6/26/2018	0.014	0.0093 (J)	0.032	0.063	0.014			
6/27/2018						0.041	0.023	0.028
12/18/2018	0.0076 (J)	0.01	0.038	0.045	0.013		0.023	0.029
12/19/2018						0.038		
8/27/2019	0.012	0.0095 (J)	0.028	0.056	0.013		0.02	
8/28/2019						0.044	0.02	0.026
10/15/2019	0.013	0.0091 (J)	0.032	0.049	0.013			
10/16/2019							0.019	0.022
12/3/2019						0.043		
3/3/2020	0.017	0.011	0.028	0.051	0.019	0.036		
3/5/2020							0.022	0.025
8/18/2020	0.01 (J)	0.01	0.022	0.04	0.014			
8/19/2020						0.047	0.02	0.024
9/15/2020	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013			
9/16/2020						0.044	0.019	0.023
3/1/2021	0.0074				0.016			
3/2/2021		0.0094	0.023	0.037				
3/3/2021							0.02	0.024
3/4/2021						0.039		
9/21/2021			0.025	0.038				
9/22/2021	0.0075	0.0097			0.014	0.043	0.019	0.021
2/1/2022	0.0066	0.01	0.028	0.04	0.014	0.045	0.023	0.024
8/23/2022	0.00954	0.012	0.0241	0.0379	0.014		0.0409	
8/24/2022						0.0512		0.0249
1/24/2023	0.00453	0.0118	0.0303	0.0394	0.0132	0.0422	0.0368	0.0232
8/31/2023	0.0068	0.0135	0.0245	0.0352	0.0143		0.0357	0.0268
9/6/2023						0.0445		
2/10/2024	0.0124	0.0137	0.0296	0.0396	0.0151	0.0522		
2/13/2024							0.0515	0.0261
8/27/2024	0.00493	0.0132	0.0314	0.0362	0.0159			
8/28/2024						0.0502	0.0511	0.0281

Time Series

Constituent: Barium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.101	0.0674		0.044				
11/17/2016	0.0808							
11/18/2016		0.0546						
11/21/2016				0.0428 (J)				
2/22/2017	0.0701							
2/23/2017		0.0489	0.0229	0.0338				
4/17/2017			0.0227					
5/15/2017			0.0227					
6/15/2017	0.0518	0.0415	0.0218	0.0239				
9/28/2017	0.047	0.0397	0.0222	0.0247				
2/15/2018	0.0485	0.038	0.0243	0.0215				
6/27/2018	0.046							
6/28/2018		0.035	0.023	0.018				
12/19/2018	0.04	0.035	0.024					
12/20/2018				0.017				
1/15/2019					0.14			
8/28/2019	0.039	0.034	0.027					
8/29/2019				0.016				
10/16/2019	0.037		0.024	0.015				
10/22/2019					0.077			
12/3/2019		0.031						
3/5/2020	0.039	0.033	0.025	0.016				
8/19/2020	0.04	0.037	0.026	0.016				
9/16/2020	0.033	0.03	0.024					
9/17/2020				0.014				
3/3/2021		0.031	0.024					
3/4/2021	0.034			0.015				
9/22/2021		0.028						
9/23/2021	0.036		0.027	0.014				
2/1/2022	0.033	0.029		0.015				
2/2/2022			0.025					
8/23/2022			0.026	0.0141	0.0562	0.0547		
8/24/2022	0.0339	0.0296						
9/1/2022								0.0444
1/24/2023	0.0291							
1/25/2023		0.0278	0.0247	0.018		0.0536	0.0171	
1/26/2023					0.0525			0.025
8/31/2023			0.0266		0.0683			
9/6/2023	0.0286	0.0243		0.0134		0.0485	0.0163	0.0196
2/10/2024	0.0299				0.0499			
2/13/2024		0.0273	0.0256	0.016		0.0517	0.0184	0.0207
8/27/2024			0.027	0.0164	0.0543	0.0535		
8/28/2024	0.0267	0.0247					0.0156	0.0198

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005				
9/1/2016					<0.0005			
9/7/2016						<0.0005	0.0019 (J)	
9/8/2016								0.0001 (J)
11/15/2016				<0.0005	<0.0005			
11/16/2016	<0.0005	<0.0005	<0.0005					
11/17/2016						<0.0005	0.002 (J)	0.0001 (J)
2/20/2017			<0.0005	<0.0005	<0.0005			
2/21/2017	<0.0005	<0.0005						
2/22/2017						<0.0005	0.0022 (J)	0.0002 (J)
6/12/2017	<0.0005		<0.0005	<0.0005	<0.0005			
6/13/2017		<0.0005						
6/14/2017							0.0019 (J)	<0.0005
6/15/2017						<0.0005		
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
9/27/2017							0.0017 (J)	0.0001 (J)
9/28/2017						<0.0005		
2/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/15/2018						<0.0005	<0.003	<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
6/27/2018						<0.0005	0.002 (J)	0.00013 (J)
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0021 (J)	0.00012 (J)
12/19/2018						<0.0005		
8/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0019 (J)	
8/28/2019						<0.0005	0.0019 (J)	0.00014 (J)
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
10/16/2019							0.0018 (J)	0.00014 (J)
10/17/2019						<0.0005		
12/3/2019						<0.0005		
3/3/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3/5/2020							0.0018 (J)	0.00015 (J)
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/19/2020						<0.0005	0.0014 (J)	0.00015 (J)
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
9/16/2020						<0.0005	0.0015 (J)	0.00014 (J)
3/1/2021	<0.0005				<0.0005			
3/2/2021		<0.0005	<0.0005	<0.0005				
3/3/2021							0.0013	0.00015 (J)
3/4/2021						<0.0005		
9/21/2021			<0.0005	<0.0005				
9/22/2021	<0.0005	<0.0005			<0.0005	<0.0005	0.0012	0.00015 (J)
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	0.00015 (J)
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.00241	
8/24/2022						<0.0005		<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00235	<0.0005
8/31/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0019	<0.0005
9/6/2023						<0.0005		
2/10/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/13/2024							0.00269	0.000202 (J)
8/27/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/28/2024						<0.0005	0.00209	0.000205 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	9E-05 (J)	<0.0005		0.0079				
9/23/2016				0.0096 (R)				
11/17/2016	0.0001 (J)							
11/18/2016		0.0001 (J)						
11/21/2016				0.0092				
2/22/2017	0.0001 (J)							
2/23/2017		0.0001 (J)	<0.0005	0.01				
4/17/2017			<0.0005					
5/15/2017			<0.0005					
6/15/2017	0.0001 (J)	9E-05 (J)	<0.0005	0.0104				
9/28/2017	0.0001 (J)	0.0001 (J)	<0.0005	0.0098				
2/15/2018	<0.0005	<0.0005	<0.0005	0.011 (J)				
6/27/2018	0.00015 (J)							
6/28/2018		8.1E-05 (J)	<0.0005	0.0085				
12/19/2018	<0.0005 (X)	<0.0005 (X)	<0.0005					
12/20/2018				0.0092				
1/15/2019					0.0005 (J)			
8/28/2019	0.00016 (J)	0.00011 (J)	<0.0005					
8/29/2019				0.0088				
10/16/2019	0.00015 (J)		<0.0005	0.0079				
10/17/2019		<0.0005						
10/22/2019					0.0004 (J)			
12/3/2019		9.7E-05 (J)						
3/5/2020	0.00015 (J)	9.2E-05 (J)	<0.0005	0.0082				
8/19/2020	0.00015 (J)	0.00011 (J)	<0.0005	0.0079				
9/16/2020	0.00014 (J)	8E-05 (J)	<0.0005					
9/17/2020				0.0073				
3/3/2021		7.9E-05 (J)	<0.0005					
3/4/2021	0.00012 (J)			0.0077				
9/22/2021		8.4E-05 (J)						
9/23/2021	0.00016 (J)		<0.0005	0.0071				
2/1/2022	0.00015 (J)	8.7E-05 (J)		0.0072				
2/2/2022			<0.0005					
8/23/2022			<0.0005	0.00854	0.000331 (J)	<0.0005		
8/24/2022	0.00021 (J)	<0.0005						
9/1/2022								<0.0005
1/24/2023	<0.0005							
1/25/2023		<0.0005	<0.0005	0.0078		<0.0005	<0.0005	
1/26/2023					0.000422 (J)			0.000217 (J)
8/31/2023			<0.0005		0.000259 (J)			
9/6/2023	0.0002 (J)	<0.0005				<0.0005		
9/7/2023				0.0068			<0.0005	0.000325 (J)
2/10/2024	<0.0005				0.000388 (J)			
2/13/2024		<0.0005	<0.0005	0.00591		<0.0005	<0.0005	0.00034 (J)
8/27/2024			<0.0005	0.00644	0.000346 (J)	<0.0005		
8/28/2024	<0.0005	<0.0005					<0.0005	0.000344 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.0052				
9/1/2016					<0.015			
9/7/2016						0.0449 (J)	1.15	
9/8/2016								1.89
11/15/2016				0.0085 (J)	0.0123 (J)			
11/16/2016	0.0117 (J)	0.0109 (J)	0.0187 (J)					
11/17/2016						0.0067 (J)	1.08	2.17
2/20/2017			0.0066 (J)	0.0093 (J)	0.0157 (J)			
2/21/2017	0.0088 (J)	<0.015						
2/22/2017						<0.04	1.44	2.09
6/12/2017	0.0133 (J)		<0.015	<0.0052	<0.015			
6/13/2017		<0.015						
6/14/2017							1.16	2.45
6/15/2017						<0.04		
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.0052	<0.015			
9/27/2017							1.04	2.4
9/28/2017						<0.04		
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.0052	<0.015			
2/15/2018						<0.04	1.22	2.55
6/26/2018	0.012 (J)	<0.015	0.0042 (J)	0.0056 (J)	0.0041 (J)			
6/27/2018						0.0088 (J+X)	0.96 (J+X)	2.2 (J+X)
12/18/2018	0.0086 (J)	<0.015	<0.015	0.0062 (J)	<0.015		1.2	2.2
12/19/2018						0.0045 (J)		
3/19/2019	0.00565 (JD)	<0.015	<0.015	<0.0052	<0.015	<0.04		
3/20/2019							1.3	2.3
10/15/2019	0.0067 (J)	<0.015	<0.015	0.006 (J)	0.01 (J)			
10/16/2019							1.1	2.3
10/17/2019						<0.04		
12/3/2019						0.0063 (J)		
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.0052	<0.015	0.0075 (J)		
3/5/2020							1.5	2.1
9/15/2020	<0.015	<0.015	<0.015	<0.0052	<0.015			
9/16/2020						0.0066 (J)	1.1	2.2
3/1/2021	<0.015				<0.015			
3/2/2021		<0.015	0.0053 (J)	0.0071 (J)				
3/3/2021							1.1	2.1
3/4/2021						<0.04		
9/21/2021			<0.015	<0.0052				
9/22/2021	<0.015	<0.015			<0.015	0.02 (J)	1.1	2.2
2/1/2022	<0.015	<0.015	<0.015	<0.0052	<0.015	0.013 (J)	1.1	2.2
8/23/2022	0.00592 (J)	0.00532 (J)	<0.015	0.00538 (J)	<0.015		0.975	
8/24/2022						0.0273		2.45
1/24/2023	<0.015	<0.015	<0.015	<0.0052	<0.015	0.0326	1.19	2.21
8/31/2023	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)			
9/1/2023							0.946	1.9
9/6/2023						0.0601		
2/12/2024	<0.015	<0.015	<0.015	<0.0052	<0.015	0.0758		
2/14/2024							1.28	2.14
8/27/2024	<0.015	<0.015	<0.015	0.00538 (J)	<0.015			
8/28/2024						0.0721	1.25	1.88

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	1.06	0.725		1.73				
9/26/2016					<0.015			
11/17/2016	0.967							
11/18/2016		0.831						
11/21/2016				2.02				
2/22/2017	1.35							
2/23/2017		0.949	<0.015	1.77				
4/17/2017			<0.015					
5/15/2017			<0.015					
6/15/2017	1.49	0.961	<0.015	1.78				
9/28/2017	1.27	0.948	<0.015	1.45				
2/15/2018	1.58	1.11	<0.015	2.09				
6/27/2018	1.7 (J+X)							
6/28/2018		0.89	<0.015 (X)	1.5				
12/19/2018	1.8	1.1	<0.015					
12/20/2018				1.7				
1/15/2019					<0.015			
3/19/2019		1						
3/20/2019	1.7		0.004 (J)	1.5				
10/16/2019	2.2		0.0055 (J)	1.5				
10/17/2019		1.1						
10/22/2019					0.0098 (J)			
12/3/2019		1						
3/5/2020	1.9	1.1	0.0076 (J)	1.6				
9/16/2020	1.9	0.99	0.0062 (J)					
9/17/2020				1.4				
3/3/2021		1	<0.015					
3/4/2021	1.9			1.5				
9/22/2021		1.1						
9/23/2021	2		<0.015	1.4				
2/1/2022	2.1	1		1.6				
2/2/2022			0.032 (J)					
8/23/2022			<0.015	1.67	<0.015	1.04		
8/24/2022	2.23	1.1						
9/1/2022							0.0403	1.2
1/24/2023	2.23							
1/25/2023		1.18	<0.015	1.63		1.11	0.0362	
1/26/2023					0.0104 (J)			1.04
8/31/2023			0.00802 (J)		0.00855 (J)			
9/6/2023						1.06		
9/7/2023	2.36	1.04		1.37			0.0668	1.01
2/12/2024	2.39				0.00656 (J)			
2/14/2024		1.12	<0.015	1.26		1.03	0.0633	1.06
8/27/2024			<0.015	1.31	<0.015	0.989		
8/28/2024	2.1	1.04					0.0751	0.898

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.001	<0.001	<0.001	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	0.0005 (J)	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.001	<0.001	<0.001					
11/17/2016						<0.001	0.0005 (J)	0.0009 (J)
2/20/2017			<0.001	<0.001	<0.001			
2/21/2017	<0.001	<0.001						
2/22/2017						<0.001	0.0006 (J)	0.0005 (J)
6/12/2017	<0.001		<0.001	<0.001	<0.001			
6/13/2017		<0.001						
6/14/2017							0.0004 (J)	0.0004 (J)
6/15/2017						<0.001		
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
9/27/2017							0.0004 (J)	0.0007 (J)
9/28/2017						<0.001		
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
2/15/2018						<0.001	<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
6/27/2018						<0.001	0.00038 (J)	0.00017 (J)
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001		0.00046 (J)	0.00023 (J)
12/19/2018						<0.001		
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001		0.00032 (J)	
8/28/2019						<0.001	0.00032 (J)	0.00025 (J)
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001			
10/16/2019							0.00039 (J)	0.0004 (J)
10/17/2019						<0.001		
12/3/2019						<0.001		
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2020							0.00038 (J)	0.00018 (J)
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
8/19/2020						<0.001	0.00029 (J)	0.00018 (J)
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
9/16/2020						<0.001	0.00032 (J)	0.00017 (J)
3/1/2021	<0.001				<0.001			
3/2/2021		<0.001	<0.001	<0.001				
3/3/2021							0.00022 (J)	0.00015 (J)
3/4/2021						<0.001		
9/21/2021			<0.001	<0.001				
9/22/2021	<0.001	<0.001			<0.001	<0.001	0.00019 (J)	0.00033 (J)
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00023 (J)	0.00012 (J)
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001		0.000509 (J)	
8/24/2022						<0.001		0.000517 (J)
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000482 (J)	<0.001
8/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001		0.000533 (J)	<0.001
9/6/2023						<0.001		
2/10/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
2/13/2024							0.000792 (J)	<0.001
8/27/2024	<0.001	<0.001	<0.001	<0.001	<0.001			
8/28/2024						<0.001	0.000807 (J)	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.001	8E-05 (J)		0.0004 (J)				
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016				0.0005 (J)				
2/22/2017	<0.001							
2/23/2017		0.0001 (J)	<0.001	0.0007 (J)				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	<0.001	<0.001	<0.001	0.0006 (J)				
9/28/2017	<0.001	<0.001	<0.001	0.0007 (J)				
2/15/2018	<0.001	<0.001	<0.001	0.00069 (J)				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	0.00056 (J)				
12/19/2018	<0.001	<0.001 (X)	<0.001					
12/20/2018				<0.001 (X)				
1/15/2019					0.00011 (J)			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				0.00053 (J)				
10/16/2019	<0.001		<0.001	0.00057 (J)				
10/17/2019		<0.001						
10/22/2019					<0.001			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	0.00059 (J)				
8/19/2020	<0.001	<0.001	<0.001	0.00056 (J)				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				0.0005 (J)				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			0.00042 (J)				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	0.00048 (J)				
2/1/2022	<0.001	<0.001		0.00058				
2/2/2022			<0.001					
8/23/2022			<0.001	0.000459 (J)	<0.001	<0.001		
8/24/2022	<0.001	<0.001						
9/1/2022								<0.001
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	0.00043 (J)		<0.001	<0.001	
1/26/2023					<0.001			<0.001
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		0.00041 (J)		<0.001	<0.001	<0.001
2/10/2024	<0.001				<0.001			
2/13/2024		<0.001	<0.001	0.000342 (J)		<0.001	<0.001	<0.001
8/27/2024			<0.001	0.000341 (J)	<0.001	<0.001		
8/28/2024	<0.001	<0.001					<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	12.6	4.09	13.5	19.6				
9/1/2016					3.3			
9/7/2016						26.3	53.4	
9/8/2016								97.3
11/15/2016				21.7	3.44			
11/16/2016	12.1	4.25	14.9					
11/17/2016						31.8	41.3	97.6
2/20/2017			13.9	21.1	3.52			
2/21/2017	11.4	4.02						
2/22/2017						33.5	53.1	106
6/12/2017	9.34		13.7	21.5	3.11			
6/13/2017		3.84						
6/14/2017							47.1	98
6/15/2017						29		
9/26/2017	14.3	3.31	14.4	24	3.15			
9/27/2017							49.5	95.8
9/28/2017						34.1		
2/13/2018	<25	3.94	<25	<25	3.65			
2/15/2018						33.8	50.9	100
6/26/2018	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3			
6/27/2018						34.1	55.1	90.1
12/18/2018	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5		52.7	85.1
12/19/2018						33.1		
3/19/2019	14.3 (JD)	3.9	12.3 (J)	21.4 (J)	3.6	31.6		
3/20/2019							51.4	82
10/15/2019	15.1	3.7	14.4	20	3.5			
10/16/2019							46.5	78.2
12/3/2019						37.7		
3/3/2020	20	4	14.9	23.2	5	29.7		
3/5/2020							48.1	89.6
9/15/2020	14.1	3.9	12.7	16.8	3.7			
9/16/2020						37.9	37.9	77.7
3/1/2021	15.4				4.2			
3/2/2021		4	13.2	16.8				
3/3/2021							37.5	88.6
3/4/2021						41.2		
9/21/2021			14.1	19.1				
9/22/2021	15.9	4.3			4.1	36.4	28.9	76.9
2/1/2022	14.4	4.4	14.5	19.1	4.2	41.5	34.3	81.7
8/23/2022	13.9	4.65	14.3	18.2	3.97		119	
8/24/2022						43.6		75
1/24/2023	14.2	4.86	15.8	19.4	3.9	41.3	116	80
8/31/2023	12.6	5.02	14.3	14.9	3.79			
9/1/2023							135	83.4
9/7/2023						47.9		
2/12/2024	14.1	5.25	16	18.2	4.27	53.3		
2/14/2024							281	99.2
8/27/2024	12.4	5.45	15.9	17.2	4.19			
8/28/2024						46.4	369	95.9

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	54.1	50.6		45.9				
11/17/2016	62.6							
11/18/2016		53.9						
11/21/2016				46.4				
2/22/2017	64.6							
2/23/2017		51	3.26	43.5				
4/17/2017			3.23					
5/15/2017			2.97 (B-01)					
6/15/2017	61.3	53.8	3.15	45.3				
9/28/2017	60.8	51.8	3.26	45.1				
2/15/2018	56.6	50.1	3.39	45.3				
6/27/2018	66.2							
6/28/2018		51	3.1	45.9				
12/19/2018	64.4	57.1	3.6					
12/20/2018				41.8				
1/15/2019					23.5 (J)			
3/19/2019		49.5						
3/20/2019	61.8		3.3	38.2				
10/16/2019	61.2		3.4	38.4				
10/22/2019					14.8			
12/3/2019		47.8						
3/5/2020	69.9	51.7	3.7	39.8				
9/16/2020	61.8	45.9	3.2					
9/17/2020				33.1				
3/3/2021		53	3.6					
3/4/2021	71.8			41				
9/22/2021		53.7						
9/23/2021	70.5		3.7	36.8				
2/1/2022	73.8	49.7		37.8				
2/2/2022			3.7					
8/23/2022			3.7	37.1	9.69	76.4		
8/24/2022	68.5	48.1						
9/1/2022							69	42.6
1/24/2023	67.5							
1/25/2023		48.2	3.65	32.8		78.5	46.3	
1/26/2023					16.8			33.4
8/31/2023			3.47		8.74			
9/6/2023		43.4				74.4		
9/7/2023	71.4			28.7			46.7	31.4
2/12/2024	68.9				15.9			
2/13/2024		44.4	3.54	23.7			45.6	31.6
2/14/2024						81.7		
8/27/2024			3.64	26.7	14	80		
8/28/2024	59.5	41					44.5	31.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	2.3	2	4.4	3.6				
9/1/2016					2.5			
9/7/2016						3.7	5.3	
9/8/2016								7.2
11/15/2016				4	2.3			
11/16/2016	2	1.8	4.4					
11/17/2016						4.05 (D)	5.45 (D)	7.8 (D)
2/20/2017			4.8	3.9	2.4			
2/21/2017	2	1.8						
2/22/2017						3.6	0.12 (J)	7.1
6/12/2017	2.1		4.2	3.8	2.2			
6/13/2017		1.7						
6/14/2017							4.5	7.3
6/15/2017						3.7		
9/26/2017	2	1.8	4.4	4.1	2.3			
9/27/2017							5.4	7.6
9/28/2017						4.1		
2/13/2018	2.1	1.7	4.7	4.1	2.3			
2/15/2018						5.3	6.3	7.2
6/26/2018	2.4	2.2	4.5	4.1	2.6			
6/27/2018						4.2	4.5	7.1
12/18/2018	1.8	1.9	4.5	3.8	2.3		6.1	7.1
12/19/2018						4.9 (J-X)		
3/19/2019	2.45 (D)	2	4.5	4.2	2.6	5		
3/20/2019							6.2	6.9
10/15/2019	2.2	1.9	4.2	3.7	2.4			
10/16/2019							5.4	7.3
12/3/2019						4.8		
3/3/2020	1.9	1.9	3.9	3.6	2.9	3.8		
3/5/2020							4.8	6.4
9/15/2020	1.9	1.7	3.7	3.7	2.3			
9/16/2020						4.2	4.1	6.6
3/1/2021	1.8				2.1			
3/2/2021		1.7	3.8	3.7				
3/3/2021							3.9	6.4
3/4/2021						4.6		
9/21/2021			3.2	3.2				
9/22/2021	1.7	1.5			2.1	4.6	2.7	5.6
2/1/2022	1.8	1.6	3.5	3.4	2.1	4.9	13.1	5.9
8/23/2022	2.02	2.18	3.64	3.59	2.39		30.3	
8/24/2022						5		6.17
1/24/2023	2.09	2.16	3.93	3.56	2.3	6.31	29	7.5
8/23/2023	1.9	2.14	3.53	3.37	2.34			
8/24/2023						5.18	32.7	13.2
1/31/2024	2.35	2.14	3.98	3.52	3.23	5.69		
2/3/2024								15.7
2/5/2024							65.3	
8/27/2024	2.16	2.17	3.88	3.49	2.28			
8/28/2024						4.95	71.7	15.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	5.8	3.1		5.8				
11/17/2016	6.1 (D)							
11/18/2016		3.95 (D)						
11/21/2016				5.05 (D)				
2/22/2017	5.6							
2/23/2017		3.2	2.1	4.1				
4/17/2017			1.8					
5/15/2017			1.8					
6/15/2017	5.8	4	1.9	4.8				
9/28/2017	6.2	4.6	1.9	6.7				
2/15/2018	6.2	5.4	2.3	8				
6/27/2018	5.9							
6/28/2018		9 (J-X)	2.1 (J-X)	5.5 (J-X)				
12/19/2018	6.2 (J-X)	6.2 (J-X)	1.9 (J-X)					
12/20/2018				8 (J-X)				
1/15/2019					2.4			
3/19/2019		7.1						
3/20/2019	6.6		2.3	6.6				
10/16/2019	6.6		2.3	6.4				
10/22/2019					2.1			
12/3/2019		7.7						
3/5/2020	5.8	7.6	1.8	5.8				
9/16/2020	6	7.9	1.8					
9/17/2020				6.1				
3/3/2021		8.1	1.9					
3/4/2021	5.8			5.6				
9/22/2021		7.1						
9/23/2021	6.1		1.9	6				
2/1/2022	6	7.6		5.8				
2/2/2022			1.8					
8/23/2022			1.97	6.42	4.2	4.94		
8/24/2022	6.53	7.96						
9/1/2022							6.24	10.8
1/24/2023	6.46							
1/25/2023		7.93	1.92	6.53		4.66		
1/26/2023					3.36		12.3	5.37
8/23/2023			1.89		2.73			
8/24/2023	6.21	8.26		6.44			6.9	5.75
8/25/2023						4.43		
1/31/2024	6.51				3.19			
2/1/2024		8.32	2	7				
2/2/2024						4.58	5.59	5.74
8/27/2024			1.9	6.53	3.03	4.37		
8/28/2024	6.21	7.81					4.15	4.99

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)				
9/1/2016					0.0147			
9/7/2016						0.01 (J)	<0.01	
9/8/2016								<0.01
11/15/2016				0.003 (J)	0.0154 (B)			
11/16/2016	<0.01	0.0029 (J)	0.0051 (J)					
11/17/2016						0.0185	<0.01	<0.01
2/20/2017			0.0049 (J)	0.0047 (J)	0.014			
2/21/2017	<0.01	0.0036 (J)						
2/22/2017						0.0122	<0.01	<0.01
6/12/2017	0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016			
6/13/2017		0.0038 (J)						
6/14/2017							<0.01	<0.01
6/15/2017						0.0117		
9/26/2017	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144			
9/27/2017							<0.01	<0.01
9/28/2017						0.0114		
2/13/2018	<0.01	<0.01	<0.01	<0.01	0.0144			
2/15/2018						0.011	<0.01	<0.01
6/26/2018	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015			
6/27/2018						0.0098 (J)	<0.01	<0.01
12/18/2018	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015		<0.01	<0.01
12/19/2018						0.0095 (J)		
8/27/2019	0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015		<0.01	
8/28/2019						0.013	<0.01	<0.01
10/15/2019	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014			
10/16/2019							0.00049 (J)	<0.01
12/3/2019						0.011		
3/3/2020	0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011	0.0081 (J)		
3/5/2020							<0.01	<0.01
8/18/2020	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015			
8/19/2020						0.012	<0.01	<0.01
9/15/2020	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014			
9/16/2020						0.012	<0.01	<0.01
3/1/2021	<0.01				0.011			
3/2/2021		0.0074	0.0064	0.0044 (J)				
3/3/2021							<0.01	<0.01
3/4/2021						0.01		
9/21/2021			0.0064	0.0044 (J)				
9/22/2021	<0.01	0.0091			0.014	0.0091	<0.01	<0.01
2/1/2022	0.0013 (J)	0.0092	0.0066	0.0052	0.015	0.013	<0.01	<0.01
8/23/2022	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143		<0.01	
8/24/2022						0.0127		<0.01
1/24/2023	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139	0.00886 (J)	<0.01	<0.01
8/31/2023	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132		<0.01	<0.01
9/6/2023						0.0115		
2/10/2024	0.00458 (J)	0.00854 (J)	0.00551 (J)	0.00582 (J)	0.0139	0.011		
2/13/2024							<0.01	<0.01
8/27/2024	0.00445 (J)	0.00799 (J)	0.00521 (J)	0.00604 (J)	0.0124			
8/28/2024						0.0101	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0019 (J)	0.0073 (J)		0.0014 (J)				
11/17/2016	0.0024 (J)							
11/18/2016		0.008 (J)						
11/21/2016				0.003 (J)				
2/22/2017	0.004 (J)							
2/23/2017		0.0086 (J)	0.001 (J)	0.0028 (J)				
4/17/2017			0.0018 (J)					
5/15/2017			0.0014 (J)					
6/15/2017	0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)				
9/28/2017	0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)				
2/15/2018	<0.01	0.0086 (J)	<0.01	0.0044 (J)				
6/27/2018	0.0062 (J)							
6/28/2018		0.0076 (J)	<0.01	0.0041 (J)				
12/19/2018	0.0073 (J)	0.0085 (J)	<0.01					
12/20/2018				0.0041 (J)				
1/15/2019					0.025			
8/28/2019	0.0071 (J)	0.0078 (J)	0.0017 (J)					
8/29/2019				0.0044 (J)				
10/16/2019	0.0064 (J)		0.0014 (J)	0.0038 (J)				
10/22/2019					0.02			
12/3/2019		0.007 (J)						
3/5/2020	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)				
8/19/2020	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)				
9/16/2020	0.0058 (J)	0.0064 (J)	0.0018 (J)					
9/17/2020				0.0042 (J)				
3/3/2021		0.0067	0.0014 (J)					
3/4/2021	0.0053			0.004 (J)				
9/22/2021		0.0065						
9/23/2021	0.0065		0.0016 (J)	0.004 (J)				
2/1/2022	0.0056	0.0068		0.0035 (J)				
2/2/2022			0.0015 (J)					
8/23/2022			<0.01	0.00398 (J)	0.0128	<0.01		
8/24/2022	0.00752 (J)	0.00713 (J)						
9/1/2022								<0.01
1/24/2023	0.00524 (J)							
1/25/2023		0.00682 (J)	<0.01	0.00362 (J)		<0.01	<0.01	
1/26/2023					0.0153			<0.01
8/31/2023			<0.01		0.0111			
9/6/2023	0.00592 (J)	0.00649 (J)		0.00338 (J)		<0.01	<0.01	<0.01
2/10/2024	0.0059 (J)				0.0134			
2/13/2024		0.00648 (J)	<0.01	0.00305 (J)		<0.01	<0.01	<0.01
8/27/2024			<0.01	0.00328 (J)	0.0137	<0.01		
8/28/2024	0.00491 (J)	0.00617 (J)					<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	0.0612	
9/8/2016								0.0029 (J)
11/15/2016				<0.001	<0.001			
11/16/2016	0.0006 (J)	0.003 (J)	<0.01 (o)					
11/17/2016						<0.001	0.0551	0.0028 (J)
2/20/2017			0.0012 (J)	0.0009 (J)	<0.001			
2/21/2017	<0.005	0.0028 (J)						
2/22/2017						<0.001	0.0567	0.0041 (J)
6/12/2017	<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)			
6/13/2017		0.0025 (J)						
6/14/2017							0.0557	0.0036 (J)
6/15/2017						<0.001		
9/26/2017	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)			
9/27/2017							0.049	0.0028 (J)
9/28/2017						<0.001		
2/13/2018	<0.005	<0.005	<0.01 (o)	<0.001	<0.001			
2/15/2018						<0.001	0.0536	<0.01
6/26/2018	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.001			
6/27/2018						<0.001	0.054	0.0041 (J)
12/18/2018	<0.005	0.0032 (J)	0.00062 (J)	<0.001	<0.001		0.049	0.0032 (J)
12/19/2018						<0.001		
8/27/2019	<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.001		0.045	
8/28/2019						<0.001	0.045	0.0037 (J)
10/15/2019	<0.005	0.00097 (J)	0.00083 (J)	<0.001	<0.001			
10/16/2019							0.042	0.0043 (J)
10/17/2019						<0.001		
12/3/2019						<0.001		
3/3/2020	<0.005	0.0015 (J)	0.00043 (J)	<0.001	0.0011 (J)	<0.001		
3/5/2020							0.037	0.0031 (J)
8/18/2020	<0.005	0.0014 (J)	0.00048 (J)	<0.001	0.00061 (J)			
8/19/2020						<0.001	0.036	0.0041 (J)
9/15/2020	<0.005	0.001 (J)	0.0005 (J)	<0.001	<0.001			
9/16/2020						<0.001	0.034	0.0042 (J)
3/1/2021	<0.005				<0.001			
3/2/2021		0.001 (J)	0.00053 (J)	<0.001				
3/3/2021							0.028	0.0046 (J)
3/4/2021						<0.001		
9/21/2021			0.00071 (J)	<0.001				
9/22/2021	0.0015 (J)	<0.005			0.00078 (J)	<0.001	0.024	0.0075
2/1/2022	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.001	<0.001	<0.001	0.027	0.0044 (J)
8/23/2022	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.001	<0.001		0.0639	
8/24/2022						<0.001		0.00438
1/24/2023	0.00154	0.000829 (J)	0.000677 (J)	<0.001	<0.001	<0.001	0.0582	0.00351
8/31/2023	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.001		0.0659	0.00384
9/6/2023						<0.001		
2/10/2024	0.0014	0.000962 (J)	0.000555 (J)	<0.001	<0.001	<0.001		
2/13/2024							0.0988	0.00751
8/27/2024	0.00105	0.000772 (J)	0.000396 (J)	<0.001	<0.001			
8/28/2024						<0.001	0.104	0.00494

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0023 (J)	<0.001		0.236				
11/17/2016	0.0012 (J)							
11/18/2016		<0.001						
11/21/2016				0.298				
2/22/2017	0.0008 (J)							
2/23/2017		<0.001	<0.001	0.277				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	0.0004 (J)	<0.001	<0.001	0.262				
9/28/2017	0.0003 (J)	<0.001	<0.001	0.279				
2/15/2018	<0.001	<0.001	<0.001	0.279				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	0.23				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				0.25				
1/15/2019					<0.001			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				0.21				
10/16/2019	<0.001		<0.001	0.21				
10/17/2019		<0.001						
10/22/2019					0.00037 (J)			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	0.22				
8/19/2020	<0.001	<0.001	<0.001	0.22				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				0.2				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			0.2				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	0.17				
2/1/2022	<0.001	<0.001		0.18				
2/2/2022			<0.001					
8/23/2022			<0.001	0.173	<0.001	<0.001		
8/24/2022	<0.001	<0.001						
9/1/2022							0.0015	0.0056
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	0.158		<0.001	0.00249	
1/26/2023					<0.001			0.000682 (J)
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		0.139		<0.001	0.000307 (J)	0.000784 (J)
2/10/2024	<0.001				<0.001			
2/13/2024		<0.001	<0.001	0.134		<0.001	0.00104	0.000866 (J)
8/27/2024			<0.001	0.119	<0.001	<0.001		
8/28/2024	<0.001	<0.001					0.000337 (J)	0.000686 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.351 (U)	1 (U)	0.62 (U)	0.603 (U)				
9/1/2016					1.33			
9/7/2016						1.18	0.541 (U)	
9/8/2016								0.998 (U)
11/15/2016				0.645 (U)	0.412 (U)			
11/16/2016	0.824 (U)	0.43 (U)	0.493 (U)					
11/17/2016						0.145 (U)	1.02 (U)	0.613
2/20/2017			0.534 (U)	1.36	0.633 (U)			
2/21/2017	1.01 (U)	0.96 (U)						
2/22/2017						0.0213 (U)	0.482 (U)	1.01 (U)
6/12/2017	0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)			
6/13/2017		0.645 (U)						
6/14/2017							0.723 (U)	0.801 (U)
6/15/2017						0.41 (U)		
9/26/2017	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)			
9/27/2017							1.5	1.44
9/28/2017						0.496 (U)		
2/13/2018	0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)			
2/15/2018						0.672 (U)	1.14 (U)	0.668 (U)
6/26/2018	1.02 (U)	1.26 (J+X)	1.11 (U)	0.614 (U)	0.903 (U)			
6/27/2018						0.692 (U)	1.3 (U)	1.06 (U)
12/18/2018	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)		1.64 (UX)	1.22
12/19/2018						0.325 (U)		
8/27/2019	1.11	1.47	1.19	1.44	0.65 (U)		1.38	
8/28/2019						0.24 (U)		0.811 (U)
10/15/2019	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)			
10/16/2019							1.16 (U)	0.561 (U)
12/18/2019						1.16 (U)		
3/3/2020	1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)	0.756 (U)		
3/5/2020							0.683 (U)	0.792 (U)
8/18/2020	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)			
8/19/2020						0.985 (U)	1.14 (U)	1.21 (U)
9/15/2020	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)			
9/16/2020						0.478 (U)	0.195 (U)	0.72 (U)
3/1/2021	0.127 (U)				0.215 (U)			
3/2/2021		0.342 (U)	0.409 (U)	0.362 (U)				
3/3/2021							0.708 (U)	1.12
3/4/2021						0.38 (U)		
9/21/2021			0.182 (U)	0.86 (U)				
9/22/2021	0.349 (U)	1.33 (U)			0.943 (U)	0.734 (U)	0.382 (U)	0.91 (U)
2/1/2022	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)	0.503 (U)	0.583 (U)	0.535 (U)
8/23/2022	1.7	0.531	2.3	0.735	0.203		1.94	
8/24/2022						0.152		1.86
1/24/2023	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)	0.728 (U)	3.31 (U)	2.14 (U)
9/20/2023						1.92 (U)		
9/22/2023	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)		0.521 (U)	1.06 (U)
2/27/2024	1.25	2.54	1.48 (U)	0 (U)	1.29	1.36		
2/28/2024							2.66	1.31 (U)
8/27/2024	0.864 (U)	1.4 (U)	3.62	0.236 (U)	1.64			
8/28/2024						1.78 (U)	2.68	3.15

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.189 (U)	0.638 (U)		0.816 (U)				
11/17/2016	0.729 (U)							
11/18/2016		1.22 (U)						
11/21/2016				2.94				
2/22/2017	0.293 (U)							
2/23/2017		0.554 (U)	0.567 (U)	1.92				
4/17/2017			0.335 (U)					
5/15/2017			0.261 (U)					
6/15/2017	1.09	0.77 (U)	0.188 (U)	3.6				
9/28/2017	1.02 (U)	1.07 (U)	0.627 (U)	3.3				
2/15/2018	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)				
6/27/2018	0.739 (U)							
6/28/2018		0.392 (U)	0.336 (U)	1.75 (UX)				
12/19/2018	0.465 (U)	0.693 (U)	0.454 (U)					
12/20/2018				2.8 (J+X)				
1/15/2019					<0.983			
8/28/2019	0.995 (U)	0.866 (U)	0.809 (U)					
8/29/2019				3.68				
10/16/2019	1.69		0.815 (U)	2.66				
10/22/2019					0.631 (U)			
12/18/2019		1.91						
3/5/2020	0.858 (U)	1.3	0.791 (U)	2.21				
8/19/2020	0.162 (U)	1.4	0.582 (U)	3.17				
9/16/2020	1.25 (U)	1.17 (U)	0.844 (U)					
9/17/2020				2.92				
3/3/2021		0.307 (U)	1.12					
3/4/2021	0.461 (U)			1.99				
9/22/2021		0.808 (U)						
9/23/2021	0.394 (U)		0.078 (U)	1.4				
2/1/2022	0.672 (U)	1.61 (U)		7.64				
2/2/2022			0.654 (U)					
8/23/2022			2.37	3.12	1.83	3.04		
8/24/2022	3.1	1.38						
9/1/2022								1.57
1/24/2023	3.34							
1/25/2023		4.86	1.67 (U)	3.79		2.1 (U)		
1/26/2023					4.77			1.81 (U)
2/2/2023							5.39	
9/20/2023	3.33	3.87		5.98				4.35
9/22/2023			0.578 (U)		0.823 (U)			
9/26/2023						3.67	1.14 (U)	
2/27/2024	2.4				2.01			
2/28/2024		2.31	1.74	2.98		3.57	2.54	1.55
8/27/2024			2.01 (U)	0.945 (U)	4.31	3.22		
8/28/2024	1.36 (U)	2.45					5.34	1.25 (U)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)				
9/1/2016					0.06 (J)			
9/7/2016						0.22 (J)	0.19 (J)	
9/8/2016								0.17 (J)
11/15/2016				0.13 (J)	0.06 (J)			
11/16/2016	0.08 (J)	0.07 (J)	0.07 (J)					
11/17/2016						0.12 (J)	0.12 (J)	0.06 (J)
2/20/2017			0.06 (J)	0.08 (J)	0.04 (J)			
2/21/2017	0.14 (J)	0.05 (J)						
2/22/2017						0.11 (J)	0.21 (J)	0.17 (J)
6/12/2017	0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)			
6/13/2017		0.04 (J)						
6/14/2017							0.18 (J)	0.1 (J)
6/15/2017						0.05 (J)		
9/26/2017	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1			
9/27/2017							0.42	0.4
9/28/2017						0.05 (J)		
2/13/2018	<0.033	<0.1	<0.1	<0.1	<0.1			
2/15/2018						<0.3	0.42	<0.3
6/26/2018	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)			
6/27/2018						0.093 (J)	0.32	0.21 (J)
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1		0.28 (J)	0.12 (J)
12/19/2018						0.16 (J)		
3/19/2019	0.0655 (JD)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)	0.1 (J)		
3/20/2019							0.14 (J)	0.074 (J)
8/27/2019	<0.033	<0.1	<0.1	<0.1	<0.1		0.11 (J)	
8/28/2019						0.085 (J)	0.11 (J)	0.057 (J)
10/15/2019	<0.033	<0.1	<0.1	0.045 (J)	<0.1			
10/16/2019							0.17 (J)	0.13 (J)
12/3/2019						0.2 (J)		
3/3/2020	0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)	0.093 (J)		
3/5/2020							0.088 (J)	0.072 (J)
8/18/2020	<0.033	<0.1	<0.1	<0.1	<0.1			
8/19/2020						0.1	0.11	0.074 (J)
9/15/2020	<0.033	<0.1	<0.1	0.051 (J)	<0.1			
9/16/2020						0.1	0.085 (J)	0.077 (J)
3/1/2021	<0.033				<0.1			
3/2/2021		<0.1	<0.1	<0.1				
3/3/2021							0.069 (J)	0.071 (J)
3/4/2021						0.096 (J)		
9/21/2021			<0.1	0.056 (J)				
9/22/2021	<0.033	<0.1			<0.1	0.1	0.068 (J)	0.1
2/1/2022	<0.033	<0.1	<0.1	<0.1	<0.1	0.079 (J)	0.053 (J)	0.06 (J)
8/23/2022	<0.033	<0.1	<0.1	<0.1	<0.1		0.187	
8/24/2022						0.274		0.14
1/24/2023	<0.033	<0.1	0.149	0.158	0.12	0.216	0.193	0.122
8/23/2023	0.267	0.229	0.289	0.277	0.0787 (J)		0.123	
8/24/2023						0.484		0.0816 (J)
1/31/2024	<0.033	0.184	0.232	0.233	0.0341 (J)	0.34		
2/1/2024							0.194	0.101
8/27/2024	0.0342 (J)	0.0426 (J)	0.0365 (J)	0.0516 (J)	0.0334 (J)			
8/28/2024						0.218	0.204	0.11

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.34	0.18 (J)		0.66				
11/17/2016	0.14 (J)							
11/18/2016		0.03 (J)						
11/21/2016				0.9 (D)				
2/22/2017	0.09 (J)							
2/23/2017		0.07 (J)	0.1 (J)	0.75				
4/17/2017			0.08 (J)					
5/15/2017			0.02 (J)					
6/15/2017	0.03 (J)	0.01 (J)	0.03 (J)	0.77				
9/28/2017	<0.1	<0.1	<0.1	0.8				
2/15/2018	<0.1	<0.1	<0.1	0.82				
6/27/2018	0.22 (J)							
6/28/2018		0.51 (J+X)	<0.1	1.5 (J+X)				
12/19/2018	0.11 (J)	<0.1	0.094 (J)					
12/20/2018				0.68				
1/15/2019					0.06 (J)			
3/19/2019		<0.1						
3/20/2019	0.088 (J)		0.062 (J)	0.95				
8/28/2019	0.056 (J)	<0.1	<0.1					
8/29/2019				0.9				
10/16/2019	0.08 (J)		0.059 (J)	0.61				
10/22/2019					<0.1			
12/3/2019		0.15 (J)						
3/5/2020	0.067 (J)	<0.1	0.05 (J)	0.92				
8/19/2020	0.06 (J)	0.051 (J)	0.055 (J)	0.95				
9/16/2020	0.062 (J)	<0.1	<0.1					
9/17/2020				0.68				
3/3/2021		<0.1	<0.1					
3/4/2021	0.076 (J)			0.83				
9/22/2021		0.054 (J)						
9/23/2021	0.073 (J)		<0.1	0.85				
2/1/2022	0.055 (J)	<0.1		0.95				
2/2/2022			<0.1					
8/23/2022			0.105	0.609	0.128	0.164		
8/24/2022	<0.1	0.194						
9/1/2022							0.14	1.43
1/24/2023	0.239							
1/25/2023		0.183	0.114	0.708		0.282		
1/26/2023					<0.1		1.93	<0.1
8/23/2023			0.0445 (J)		<0.1			
8/24/2023	0.347			0.748			1.94	
8/25/2023		0.301				0.334		0.229
1/31/2024	0.263				0.222			
2/1/2024		0.144	0.109	0.493				
2/2/2024						0.153	1.9	0.108
8/27/2024			0.0777 (J)	0.366	0.0701 (J)	0.103		
8/28/2024	0.0609 (J)	0.0861 (J)					2.04	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					0.0001 (J)			
9/7/2016						<0.002	0.0002 (J)	
9/8/2016								<0.002
11/15/2016				<0.002	<0.002			
11/16/2016	<0.002	<0.002	<0.002					
11/17/2016						0.0001 (J)	0.0002 (J)	0.0001 (J)
2/20/2017			<0.002	0.0002 (J)	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017						<0.002	0.0001 (J)	0.0003 (J)
6/12/2017	8E-05 (J)		<0.002	0.0001 (J)	8E-05 (J)			
6/13/2017		<0.002						
6/14/2017							9E-05 (J)	<0.002
6/15/2017						<0.002		
9/26/2017	7E-05 (J)	7E-05 (J)	<0.002	0.0001 (J)	<0.002			
9/27/2017							7E-05 (J)	9E-05 (J)
9/28/2017						<0.002		
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2018						<0.002	<0.002	<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
6/27/2018						<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
12/19/2018						<0.002		
8/27/2019	<0.002	5.8E-05 (J)	<0.002	0.00036 (J)	<0.002		0.00013 (J)	
8/28/2019						<0.002	0.00013 (J)	<0.002
10/15/2019	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002			
10/16/2019							8.8E-05 (J)	<0.002
12/3/2019						<0.002		
3/3/2020	<0.002	<0.002	<0.002	7.9E-05 (J)	7.3E-05 (J)	<0.002		
3/5/2020							8.7E-05 (J)	<0.002
8/18/2020	<0.002	<0.002	<0.002	0.0001 (J)	<0.002			
8/19/2020						<0.002	6E-05 (J)	<0.002
9/15/2020	<0.002	<0.002	0.0013 (J)	4.3E-05 (J)	<0.002			
9/16/2020						5.4E-05 (J)	6.3E-05 (J)	<0.002
3/1/2021	<0.002				<0.002			
3/2/2021		<0.002	3.7E-05 (J)	<0.002				
3/3/2021							5.8E-05 (J)	<0.002
3/4/2021						<0.002		
9/21/2021			<0.002	<0.002				
9/22/2021	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
8/24/2022						<0.002		<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
9/6/2023						<0.002		
2/10/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
2/13/2024							<0.002	<0.002
8/27/2024	<0.002	<0.002	<0.002	<0.002	<0.002			
8/28/2024						<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0001 (J)	<0.002		0.0004 (J)				
11/17/2016	0.0002 (J)							
11/18/2016		<0.002						
11/21/2016				0.0005 (J)				
2/22/2017	0.0001 (J)							
2/23/2017		<0.002	<0.002	0.0005 (J)				
4/17/2017			0.0001 (J)					
5/15/2017			<0.002					
6/15/2017	<0.002	<0.002	<0.002	0.0004 (J)				
9/28/2017	<0.002	<0.002	0.0001 (J)	0.0004 (J)				
2/15/2018	<0.002	<0.002	<0.002	0.00047 (J)				
6/27/2018	<0.002							
6/28/2018		<0.002	<0.002	0.00036 (J)				
12/19/2018	<0.002	<0.002	<0.002					
12/20/2018				0.00039 (J)				
1/15/2019					<0.002			
8/28/2019	<0.002	<0.002	<0.002					
8/29/2019				0.00035 (J)				
10/16/2019	<0.002		<0.002	0.00035 (J)				
10/22/2019					0.00035 (J)			
12/3/2019		<0.002						
3/5/2020	<0.002	<0.002	<0.002	0.00041 (J)				
8/19/2020	<0.002	4.7E-05 (J)	<0.002	0.00031 (J)				
9/16/2020	0.00012 (J)	<0.002	<0.002					
9/17/2020				0.00032 (J)				
3/3/2021		<0.002	<0.002					
3/4/2021	<0.002			0.00034 (J)				
9/22/2021		<0.002						
9/23/2021	<0.002		<0.002	<0.002				
2/1/2022	<0.002	<0.002		<0.002				
2/2/2022			<0.002					
8/23/2022			<0.002	<0.002	<0.002	<0.002		
8/24/2022	<0.002	<0.002						
9/1/2022								<0.002
1/24/2023	<0.002							
1/25/2023		<0.002	<0.002	<0.002		<0.002	<0.002	
1/26/2023					<0.002			<0.002
8/31/2023			<0.002		<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002
2/10/2024	<0.002				<0.002			
2/13/2024		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
8/27/2024			<0.002	<0.002	<0.002	<0.002		
8/28/2024	<0.002	<0.002					<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0268 (J)	<0.01	<0.003	<0.01				
9/1/2016					0.003 (J)			
9/7/2016						<0.01	0.0092 (J)	
9/8/2016								<0.01
11/15/2016				<0.01	0.0033 (J)			
11/16/2016	0.0201 (J)	<0.01	0.0033 (J)					
11/17/2016						<0.01	0.0097 (J)	<0.01
2/20/2017			<0.003	<0.01	0.0025 (J)			
2/21/2017	0.0128 (J)	<0.01						
2/22/2017						<0.01	0.0106 (J)	<0.01
6/12/2017	0.0245 (J)		0.0019 (J)	<0.01	0.0027 (J)			
6/13/2017		<0.01						
6/14/2017							0.0097 (J)	<0.01
6/15/2017						<0.01		
9/26/2017	0.0549	<0.01	0.0022 (J)	<0.01	0.0023 (J)			
9/27/2017							0.0099 (J)	<0.01
9/28/2017						<0.01		
2/13/2018	0.0595	<0.01	0.0041 (J)	<0.01	0.0027 (J)			
2/15/2018						<0.01	0.0106 (J)	<0.01
6/26/2018	0.089	<0.01	0.0025 (J)	<0.01	0.0029 (J)			
6/27/2018						<0.01	0.01 (J)	<0.01
12/18/2018	0.024 (J)	<0.01	0.0032 (J)	<0.01	0.0026 (J)		0.011 (J)	<0.01
12/19/2018						<0.01		
8/27/2019	0.035	<0.01	0.0019 (J)	<0.01	0.0028 (J)		0.01 (J)	
8/28/2019						0.00097 (J)	0.01 (J)	0.0009 (J)
10/15/2019	0.028 (J)	<0.01	0.002 (J)	<0.01	0.0024 (J)			
10/16/2019							0.0098 (J)	0.00078 (J)
12/3/2019						0.001 (J)		
3/3/2020	0.055	<0.01	0.0013 (J)	<0.01	0.0026 (J)	<0.01		
3/5/2020							0.011 (J)	0.00089 (J)
8/18/2020	0.054	<0.01	0.00095 (J)	<0.01	0.0026 (J)			
8/19/2020						0.001 (J)	0.009 (J)	0.00082 (J)
9/15/2020	0.033	<0.01	0.001 (J)	<0.01	0.0027 (J)			
9/16/2020						0.00096 (J)	0.0089 (J)	<0.01
3/1/2021	0.027 (J)				0.0036 (J)			
3/2/2021		<0.01	0.00081 (J)	<0.01				
3/3/2021							0.0085 (J)	0.00096 (J)
3/4/2021						0.00086 (J)		
9/21/2021			0.0012 (J)	<0.01				
9/22/2021	0.021 (J)	<0.01			0.0035 (J)	0.0011 (J)	0.008 (J)	<0.01
2/1/2022	0.023 (J)	<0.01	0.0011 (J)	<0.01	0.0029 (J)	0.00096 (J)	0.0083 (J)	0.00085 (J)
8/23/2022	0.0262	<0.01	<0.003	<0.01	0.00314 (J)		0.0109	
8/24/2022						<0.01		<0.01
1/24/2023	0.00919 (J)	<0.01	<0.003	<0.01	0.00341 (J)	<0.01	0.0115	<0.01
8/31/2023	0.0209	<0.01	<0.003	<0.01	<0.01		0.00967 (J)	<0.01
9/6/2023						<0.01		
2/10/2024	0.00407 (J)	<0.01	<0.003	<0.01	0.00317 (J)	<0.01		
2/13/2024							0.0117	<0.01
8/27/2024	0.00584 (J)	<0.01	0.00337 (J)	<0.01	0.00322 (J)			
8/28/2024						<0.01	0.0102	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	0.0021 (J)	0.0024 (J)		0.0193 (J)				
11/17/2016	0.0022 (J)							
11/18/2016		0.0026 (J)						
11/21/2016				0.0223 (J)				
2/22/2017	0.0023 (J)							
2/23/2017		0.0026 (J)	<0.01	0.0229 (J)				
4/17/2017			<0.01					
5/15/2017			<0.01					
6/15/2017	0.0023 (J)	0.0026 (J)	<0.01	0.0227 (J)				
9/28/2017	0.0021 (J)	0.0025 (J)	<0.01	0.023 (J)				
2/15/2018	0.0021 (J)	<0.01	<0.01	0.0254 (J)				
6/27/2018	0.0021 (J)							
6/28/2018		0.0022 (J)	<0.01	0.021 (J)				
12/19/2018	0.0021 (J)	0.0026 (J)	<0.01					
12/20/2018				0.022 (J)				
1/15/2019					0.0017 (J)			
8/28/2019	0.0021 (J)	0.0025 (J)	<0.01					
8/29/2019				0.021 (J)				
10/16/2019	0.0022 (J)		<0.01	0.02 (J)				
10/22/2019					0.001 (J)			
12/3/2019		0.0024 (J)						
3/5/2020	0.0021 (J)	0.0025 (J)	<0.01	0.021 (J)				
8/19/2020	0.0021 (J)	0.0024 (J)	<0.01	0.021 (J)				
9/16/2020	0.002 (J)	0.0022 (J)	<0.01					
9/17/2020				0.02 (J)				
3/3/2021		0.0024 (J)	<0.01					
3/4/2021	0.0021 (J)			0.021 (J)				
9/22/2021		0.0026 (J)						
9/23/2021	0.0022 (J)		<0.01	0.019 (J)				
2/1/2022	0.0021 (J)	0.0023 (J)		0.02 (J)				
2/2/2022			<0.01					
8/23/2022			<0.01	0.0214	<0.01	0.0171		
8/24/2022	<0.01	<0.01						
9/1/2022								0.00615 (J)
1/24/2023	<0.01							
1/25/2023		<0.01	<0.01	0.0256		0.0207	0.0165	
1/26/2023					<0.01			0.00381 (J)
8/31/2023			<0.01		<0.01			
9/6/2023	<0.01	<0.01				0.0185		
9/7/2023				0.0195			0.0182	0.00385 (J)
2/10/2024	<0.01				<0.01			
2/13/2024		<0.01	<0.01	0.0201		0.0182	0.0184	0.00385 (J)
8/27/2024			<0.01	0.02	<0.01	0.019		
8/28/2024	<0.01	<0.01					0.0163	0.00382 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002				
9/1/2016					<0.0002			
9/7/2016						<0.0002	<0.0002	
9/8/2016								<0.0002
11/15/2016				<0.0002	<0.0002			
11/16/2016	<0.0002	<0.0002	<0.0002					
11/17/2016						<0.0002	<0.0002	<0.0002
2/20/2017			<0.0002	8E-05 (J)	<0.0002			
2/21/2017	<0.0002	<0.0002						
2/22/2017						<0.0002	<0.0002	<0.0002
6/12/2017	4E-05 (J)		<0.0002	<0.0002	<0.0002			
6/13/2017		<0.0002						
6/14/2017							7E-05 (J)	7E-05 (J)
6/15/2017						6E-05 (J)		
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/27/2017							4E-05 (J)	4E-05 (J)
9/28/2017						<0.0002		
2/13/2018	0.00021	0.00019 (J)	<0.0002	0.00013 (J)	<0.0002			
2/15/2018						<0.0002	<0.0002	<0.0002
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
6/27/2018						<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
12/19/2018						<0.0002		
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019						<0.0002	<0.0002	<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/19/2020						8.4E-05 (J)	<0.0002	0.00012 (J)
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/16/2020						<0.0002	<0.0002	<0.0002
3/1/2021	<0.0002				<0.0002			
3/2/2021		<0.0002	<0.0002	<0.0002				
3/3/2021							<0.0002	<0.0002
3/4/2021						<0.0002		
9/21/2021			0.0001 (J)	0.0001 (J)				
9/22/2021	0.0001 (J)	0.0001 (J)			0.0001 (J)	0.0001 (J)	0.00012 (J)	0.00015 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/24/2022						<0.0002		<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
8/28/2023						<0.0002		
2/2/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/5/2024							<0.0002	<0.0002
8/27/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/28/2024						<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.0002	<0.0002		7E-05 (J)				
11/17/2016	<0.0002							
11/18/2016		<0.0002						
11/21/2016				0.00012 (J)				
2/22/2017	<0.0002							
2/23/2017		<0.0002	<0.0002	7E-05 (J)				
4/17/2017			<0.0002					
5/15/2017			<0.0002					
6/15/2017	7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)				
9/28/2017	<0.0002	<0.0002	<0.0002	0.00011 (J)				
2/15/2018	<0.0002	<0.0002	<0.0002	0.00015 (J)				
6/27/2018	<0.0002							
6/28/2018		<0.0002	<0.0002	<0.0002 (X)				
12/19/2018	<0.0002	<0.0002	<0.0002					
12/20/2018				0.00017 (J)				
1/15/2019					<0.0002			
8/28/2019	<0.0002	<0.0002	<0.0002					
8/29/2019				0.00018 (J)				
8/19/2020	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)				
9/16/2020	<0.0002	<0.0002	<0.0002					
9/17/2020				0.00011 (J)				
3/3/2021		<0.0002	<0.0002					
3/4/2021	<0.0002			8.5E-05 (J)				
9/22/2021		0.0001 (J)						
9/23/2021	0.00011 (J)		0.00011 (J)	0.00022				
2/1/2022	<0.0002	<0.0002		<0.0002				
2/2/2022			<0.0002					
8/23/2022			<0.0002	0.000117 (J)	<0.0002	<0.0002		
8/24/2022	<0.0002	<0.0002						
9/1/2022								<0.0002
1/24/2023	<0.0002							
1/25/2023		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/26/2023					<0.0002			<0.0002
8/25/2023			<0.0002		<0.0002			
8/28/2023	<0.0002	<0.0002		<0.0002			<0.0002	0.00322
8/29/2023						<0.0002		
2/2/2024	<0.0002				<0.0002			
2/5/2024		<0.0002	<0.0002	8.5E-05 (J)		<0.0002	<0.0002	0.00149
8/27/2024			<0.0002	<0.0002	<0.0002	<0.0002		
8/28/2024	<0.0002	<0.0002					<0.0002	0.00101

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0021 (J)	<0.001	0.004 (J)	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	<0.001	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.01	<0.001	0.0038 (J)					
11/17/2016						<0.001	<0.001	<0.001
2/20/2017			0.0055 (J)	<0.001	<0.001			
2/21/2017	0.0021 (J)	<0.001						
2/22/2017						<0.001	<0.001	<0.001
6/12/2017	0.0021 (J)		0.005 (J)	<0.001	<0.001			
6/13/2017		<0.001						
6/14/2017							<0.001	<0.001
6/15/2017						<0.001		
9/26/2017	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001			
9/27/2017							<0.001	<0.001
9/28/2017						<0.001		
2/13/2018	0.0019 (J)	<0.001	0.008 (J)	<0.001	<0.001			
2/15/2018						<0.001	<0.001	<0.001
6/26/2018	<0.01	<0.001	0.0041 (J)	<0.001	<0.001			
6/27/2018						<0.001	<0.001	<0.001
12/18/2018	<0.01	<0.001	0.0048 (J)	<0.001	<0.001		<0.001	<0.001
12/19/2018						<0.001		
8/27/2019	<0.01	<0.001	0.0028 (J)	<0.001	<0.001		<0.001	
8/28/2019						<0.001	<0.001	<0.001
10/15/2019	<0.01	<0.001	0.0035 (J)	<0.001	<0.001			
10/16/2019							<0.001	<0.001
12/3/2019						<0.001		
3/3/2020	<0.01	<0.001	0.0023 (J)	<0.001	<0.001	<0.001		
3/5/2020							<0.001	<0.001
8/18/2020	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001			
8/19/2020						<0.001	<0.001	<0.001
9/15/2020	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001			
9/16/2020						<0.001	<0.001	<0.001
3/1/2021	<0.01				<0.001			
3/2/2021		<0.001	0.0015 (J)	<0.001				
3/3/2021							<0.001	<0.001
3/4/2021						<0.001		
9/21/2021			0.002 (J)	<0.001				
9/22/2021	0.0012 (J)	<0.001			<0.001	<0.001	<0.001	<0.001
2/1/2022	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	0.0024	<0.001	0.00151	<0.001	<0.001		<0.001	
8/24/2022						<0.001		<0.001
1/24/2023	0.000601 (J)	<0.001	0.00192	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023	0.00169	<0.001	0.000953 (J)	<0.001	<0.001		<0.001	<0.001
9/6/2023						<0.001		
2/10/2024	0.000362 (J)	<0.001	0.00143	<0.001	<0.001	<0.001		
2/13/2024							<0.001	<0.001
8/27/2024	0.000313 (J)	<0.001	0.00134	<0.001	<0.001			
8/28/2024						<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.001	<0.001		<0.001				
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016				<0.001				
2/22/2017	<0.001							
2/23/2017		<0.001	<0.001	<0.001				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	<0.001	<0.001	<0.001	<0.001				
9/28/2017	<0.001	<0.001	<0.001	<0.001				
2/15/2018	<0.001	<0.001	<0.001	<0.001				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	<0.001				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				<0.001				
1/15/2019					<0.001			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				<0.001				
10/16/2019	<0.001		<0.001	<0.001				
10/22/2019					<0.001			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	<0.001				
8/19/2020	<0.001	<0.001	<0.001	<0.001				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				<0.001				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			<0.001				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	<0.001				
2/1/2022	<0.001	<0.001		<0.001				
2/2/2022			<0.001					
8/23/2022			<0.001	<0.001	<0.001	0.00265		
8/24/2022	<0.001	<0.001						
9/1/2022								0.00142
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	<0.001		0.00234	0.0222	
1/26/2023					<0.001			<0.001
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		<0.001		0.00211	0.0154	<0.001
2/10/2024	<0.001				<0.001			
2/13/2024		<0.001	<0.001	<0.001		0.00209	0.0137	<0.001
8/27/2024			<0.001	<0.001	<0.001	0.00191		
8/28/2024	<0.001	<0.001					0.00922	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.16	6.2	6.53	6.59				
9/1/2016					6.49			
9/7/2016						6.36	4.92	
9/8/2016								5.84
11/15/2016				6.67	6.59			
11/16/2016	6.96	6.12	6.4					
11/17/2016						6.28	4.82	5.81
2/20/2017			6.44	6.65	6.61			
2/21/2017	7.15	6.24						
2/22/2017						6.4	4.86	5.85
6/12/2017	7.31		6.4	6.64				
6/13/2017		6.19						
6/14/2017							4.86	5.87
9/26/2017	7.02	6.15	6.31	6.58	6.47			
9/27/2017							4.78	5.74
9/28/2017						6.35		
2/13/2018	7.44	6.18	6.62	6.72	6.54			
2/15/2018						6.35	4.84	5.93
6/26/2018	6.93	6.05	6.29	6.43	6.23			
6/27/2018						6.35	4.73	5.68
12/18/2018	6.76	5.92	6.57	6.7	6.71		4.84	5.97
12/19/2018						6.56		
3/19/2019	6.87	6.18	6.45	6.63	6.18	6.43		
3/20/2019							4.77	5.84
8/27/2019	6.79	6.09	6.37	6.49	6.35		4.78	
8/28/2019						6.25	5.52	5.8
10/15/2019	6.57	6.06	6.77	7.01	6.36			
10/16/2019							4.78	5.85
10/17/2019						6.3		
3/3/2020	6.71	6.1	6.29	6.49	6.59	6.34		
3/5/2020							4.82	5.89
8/18/2020	6.59	6.06	6.29	6.41	6.33			
8/19/2020						6.24	4.78	5.78
9/15/2020	6.64	6.01	6.27	6.25	6.43			
9/16/2020						6.26	4.78	5.81
3/1/2021	6.66				6.7			
3/2/2021		6.2	6.47	6.42				
3/3/2021							4.83	5.88
3/4/2021						6.45		
9/21/2021			6.32	6.36				
9/22/2021	6.78	6.06			6.48	6.22	4.81	5.93
2/1/2022	6.83	5.95	6.38	6.39	6.54	6.39	4.82	5.87
8/23/2022	6.67	5.95	6.24	6.36	6.51		4.67	
8/24/2022						6.62		5.75
1/24/2023	6.7	5.26	6.42	6.47	6.54	6.37	4.79	5.93
8/22/2023	6.91	5.97	6.36	6.09	6.27		4.58	5.72
8/23/2023						6.16		
1/30/2024	6.57	6.05	6.44	6.38	5.75	6.28		
1/31/2024							4.78	5.95
8/27/2024	6.6	6.02	6.56	6.65	6.8			
8/28/2024						6.49	4.51	6.21

Time Series

Constituent: pH, Field (S.U.) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	6.1	5.59		5.43				
9/23/2016				5.46				
9/26/2016					5.68			
11/17/2016	6.04							
11/18/2016		5.51						
11/21/2016				4.84				
2/22/2017	6.08							
2/23/2017		5.65	5.57	4.73				
9/28/2017	6.03	5.62	5.76	4.37				
2/15/2018	6.02	5.66	5.95	4.3				
6/27/2018	6.01							
6/28/2018		5.57	5.78	4.16				
12/19/2018	6.22	5.76	6.07					
12/20/2018				4.21				
1/15/2019					5.52			
3/19/2019		5.72						
3/20/2019	6.06		5.93	4.34				
8/28/2019	5.95	5.52	5.8					
8/29/2019				4.01				
10/16/2019	6.03		5.81	4.21				
10/17/2019		5.61						
10/22/2019					5.49			
3/5/2020	6.04	5.39	5.53	4.01				
8/19/2020	5.97	5.53	5.66	4.12				
9/16/2020	5.96	5.58	5.84					
9/17/2020				4.17				
3/3/2021		5.86	5.87					
3/4/2021	6.14			4.19				
9/22/2021		5.53						
9/23/2021	6.08		5.85	4.05				
2/1/2022	6.09	5.65		4.06				
2/2/2022			5.8					
8/23/2022			5.82	3.97	5.46	7.18		
8/24/2022	6.05	5.59						
1/24/2023	6.08							
1/25/2023		5.64	5.84	4.75		7.1	7.14	
1/26/2023					5.56		7.14	5.6
8/22/2023			5.42		5.37			
8/23/2023	5.9	5.26		3.91			6.99	5.36
8/24/2023						6.54		
1/30/2024	5.5				5.66			
1/31/2024		5.63	5.76	4.1		6.7	7.69	5.5
8/27/2024			5.82	4.96	5.67	6.94		
8/28/2024	5.87	5.8					7.66	5.28

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005			
9/7/2016						0.0024 (J)	0.0032 (J)	
9/8/2016								<0.005
11/15/2016				<0.005	<0.005			
11/16/2016	<0.005	<0.005	<0.005					
11/17/2016						0.0028 (J)	0.0028 (J)	<0.005
2/20/2017			<0.005	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017						0.0018 (J)	0.0018 (J)	<0.005
6/12/2017	<0.005		<0.005	<0.005	<0.005			
6/13/2017		<0.005						
6/14/2017							0.004 (J)	<0.005
6/15/2017						0.0024 (J)		
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005			
9/27/2017							0.0036 (J)	<0.005
9/28/2017						<0.005		
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2018						<0.005	<0.005	<0.005
6/26/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
6/27/2018						0.002 (J)	0.0017 (J)	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
12/19/2018						0.0014 (J)		
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
8/28/2019						0.003 (J)	<0.005	<0.005
10/15/2019	<0.005	<0.005	<0.005	<0.005	<0.005			
10/16/2019							0.0028 (J)	<0.005
12/3/2019						0.0041 (J)		
3/3/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 (J)		
3/5/2020							<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/19/2020						0.003 (J)	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
9/16/2020						<0.005	0.0028 (J)	<0.005
3/1/2021	<0.005				<0.005			
3/2/2021		<0.005	<0.005	<0.005				
3/3/2021							<0.005	<0.005
3/4/2021						<0.005		
9/21/2021			<0.005	<0.005				
9/22/2021	<0.005	<0.005			<0.005	0.0015 (J)	<0.005	<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005		0.0061	
8/24/2022						0.00208 (J)		<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.00178 (J)	0.0049 (J)	<0.005
8/31/2023	<0.005	<0.005	<0.005	<0.005	<0.005		0.00572	<0.005
9/6/2023						0.00214 (J)		
2/10/2024	<0.005	<0.005	<0.005	<0.005	<0.005	0.00271 (J)		
2/13/2024							0.0164	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005			
8/28/2024						0.00304 (J)	0.0238	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.005	0.0079 (J)		0.0311				
11/17/2016	<0.005							
11/18/2016		0.0082 (J)						
11/21/2016				0.0409				
2/22/2017	<0.005							
2/23/2017		0.0061 (J)	<0.005	0.0354				
4/17/2017			<0.005					
5/15/2017			<0.005					
6/15/2017	<0.005	0.0046 (J)	<0.005	0.0511				
9/28/2017	<0.005	0.0042 (J)	<0.005	0.0484				
2/15/2018	<0.005	0.0045 (J)	<0.005	0.0435				
6/27/2018	<0.005							
6/28/2018		0.0033 (J)	<0.005	0.037				
12/19/2018	<0.005	0.0042 (J)	<0.005					
12/20/2018				0.037				
1/15/2019					0.0033 (J)			
8/28/2019	<0.005	0.0041 (J)	<0.005					
8/29/2019				0.036				
10/16/2019	<0.005		<0.005	0.033				
10/22/2019					0.0033 (J)			
12/3/2019		0.0035 (J)						
3/5/2020	<0.005	0.0034 (J)	<0.005	0.032				
8/19/2020	<0.005	0.002 (J)	<0.005	0.041				
9/16/2020	<0.005	0.0031 (J)	<0.005					
9/17/2020				0.029				
3/3/2021		0.0024 (J)	<0.005					
3/4/2021	<0.005			0.039				
9/22/2021		0.0032 (J)						
9/23/2021	<0.005		<0.005	0.031				
2/1/2022	<0.005	0.0025 (J)		0.029				
2/2/2022			<0.005					
8/23/2022			<0.005	0.0296	0.00157 (J)	<0.005		
8/24/2022	<0.005	0.00246 (J)						
9/1/2022								0.00625
1/24/2023	<0.005							
1/25/2023		0.00237 (J)	<0.005	0.0279		<0.005	<0.005	
1/26/2023					0.00215 (J)			0.00921
8/31/2023			<0.005		<0.005			
9/6/2023	<0.005	0.00173 (J)		0.0186		<0.005	<0.005	0.00829
2/10/2024	<0.005				0.00203 (J)			
2/13/2024		0.00174 (J)	<0.005	0.0187		<0.005	<0.005	0.00789
8/27/2024			<0.005	0.018	0.00217 (J)	<0.005		
8/28/2024	<0.005	0.00159 (J)					<0.005	0.00691

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.5	0.38 (J)	2.7	0.81 (J)				
9/1/2016					0.6 (J)			
9/7/2016						97	260	
9/8/2016								420
11/15/2016				<1 (J)	0.68 (J)			
11/16/2016	6.6	<1 (J)	3.4					
11/17/2016						120 (D)	235 (D)	445 (D)
2/20/2017			3.9 (B-01)	1 (B-01)	0.98 (J)			
2/21/2017	6.1	1.5						
2/22/2017						120	210	410
6/12/2017	5		3.7	0.94 (J)	0.54 (J)			
6/13/2017		0.67 (J)						
6/14/2017							200	410
6/15/2017						130		
9/26/2017	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)			
9/27/2017							200	360
9/28/2017						120		
2/13/2018	4.7 (J)	<1	6.6	<1	<1			
2/15/2018						109	197	335
6/26/2018	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)			
6/27/2018						118	200	296
12/18/2018	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)		222	345
12/19/2018						125		
3/19/2019	6 (D)	0.78 (J)	3	0.74 (J)	0.68 (J)	126		
3/20/2019							204	329
10/15/2019	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)			
10/16/2019							226	325
12/3/2019						180		
3/3/2020	7.1	0.93 (J)	2.8	0.71 (J)	2.5	95.4		
3/5/2020							173	287
9/15/2020	5.9	<1	1.7	<1	<1			
9/16/2020						151	154	283
3/1/2021	4.7				0.74 (J)			
3/2/2021		<1	2.2	<1				
3/3/2021							133	277
3/4/2021						122		
9/21/2021			2.3	<1				
9/22/2021	5.2	<1			<1	123	94.6	232
2/1/2022	5.4	<1	2	<1	<1	139	99.7	243
8/23/2022	5.66	0.452	2.21	0.521	0.479		385	
8/24/2022						157		268
1/24/2023	3.58	0.465	3.34	0.66	0.484	153	375	267
8/23/2023	6.85	0.526	1.83	0.54	0.467			
8/24/2023							466	299
8/25/2023						180		
1/31/2024	2.65	0.423	2.74	0.617	0.456			
2/1/2024						189		
2/3/2024								289
2/5/2024							872	
8/27/2024	2.58	0.444	2.67	0.652	0.465			
8/28/2024						188	1230	308

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	260	300		440				
11/17/2016	285 (D)							
11/18/2016		245 (D)						
11/21/2016				490 (D)				
2/22/2017	270							
2/23/2017		330	0.55 (J)	470				
4/17/2017			0.44 (J)					
5/15/2017			0.45 (J)					
6/15/2017	280	310	0.46 (J)	490				
9/28/2017	240	290	0.49 (J)	470				
2/15/2018	266	292	1.9 (o)	432				
6/27/2018	278							
6/28/2018		284	0.24 (J)	453				
12/19/2018	287	319	0.4 (J)					
12/20/2018				463				
1/15/2019					152			
3/19/2019		307						
3/20/2019	268		<1 (X)	405				
10/16/2019	277		0.29 (J)	432				
10/22/2019					93.2			
12/3/2019		256						
3/5/2020	269	262	<1	370				
9/16/2020	270	256	<1					
9/17/2020				356				
3/3/2021		252	<1					
3/4/2021	251			325				
9/22/2021		234						
9/23/2021	258		<1	318				
2/1/2022	256	195		287				
2/2/2022			<1					
8/23/2022			0.307 (J)	389	51	348		
8/24/2022	279	224						
9/1/2022							340	172
1/24/2023	334							
1/25/2023		237	0.325 (J)	291		285		
1/26/2023					75.3		142	147
8/23/2023			0.355 (J)					
8/24/2023					46.2			
8/25/2023	269	223		274			112	139
8/26/2023						293		
2/1/2024	278		0.258 (J)		76.9			
2/3/2024		222		233		302	94.4	133
8/27/2024			0.279 (J)	233	66.6	294		
8/28/2024	251	201					72.9	128

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.001	<0.001	<0.001	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	0.0002 (J)	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.001	<0.001	<0.001					
11/17/2016						<0.001	0.0002 (J)	<0.001
2/20/2017			<0.001	<0.001	<0.001			
2/21/2017	<0.001	<0.001						
2/22/2017						<0.001	0.0002 (J)	<0.001
6/12/2017	<0.001		<0.001	<0.001	<0.001			
6/13/2017		<0.001						
6/14/2017							0.0002 (J)	<0.001
6/15/2017						<0.001		
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
9/27/2017							0.0002 (J)	<0.001
9/28/2017						<0.001		
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
2/15/2018						<0.001	0.00024 (J)	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
6/27/2018						<0.001	0.00022 (J)	<0.001
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001		0.00022 (J)	<0.001
12/19/2018						<0.001		
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001		0.00016 (J)	
8/28/2019						<0.001	0.00016 (J)	<0.001
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001			
10/16/2019							0.00019 (J)	<0.001
12/3/2019						6.6E-05 (J)		
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2020							0.0002 (J)	<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
8/19/2020						<0.001	0.00018 (J)	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
9/16/2020						<0.001	0.00018 (J)	<0.001
3/1/2021	<0.001				<0.001			
3/2/2021		<0.001	<0.001	<0.001				
3/3/2021							0.00018 (J)	<0.001
3/4/2021						<0.001		
9/21/2021			<0.001	<0.001				
9/22/2021	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
8/24/2022						<0.001		<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
9/6/2023						<0.001		
2/10/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
2/13/2024							<0.001	<0.001
8/27/2024	<0.001	<0.001	<0.001	<0.001	<0.001			
8/28/2024						<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	<0.001	<0.001		<0.001				
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016				0.0004 (J)				
2/22/2017	<0.001							
2/23/2017		<0.001	<0.001	0.0003 (J)				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	<0.001	<0.001	<0.001	0.0003 (J)				
9/28/2017	<0.001	<0.001	<0.001	0.0003 (J)				
2/15/2018	<0.001	<0.001	<0.001	0.00026 (J)				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	0.00018 (J)				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				<0.001 (X)				
1/15/2019					<0.001			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				0.00021 (J)				
10/16/2019	<0.001		<0.001	0.0002 (J)				
10/22/2019					<0.001			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	0.0002 (J)				
8/19/2020	<0.001	<0.001	<0.001	0.00019 (J)				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				0.00017 (J)				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			<0.001				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	0.00022 (J)				
2/1/2022	<0.001	<0.001		<0.001				
2/2/2022			<0.001					
8/23/2022			<0.001	<0.001	<0.001	<0.001		
8/24/2022	<0.001	<0.001						
9/1/2022								<0.001
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	<0.001		<0.001	<0.001	
1/26/2023					<0.001			<0.001
8/31/2023			<0.001		<0.001			
9/6/2023	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001
2/10/2024	<0.001				<0.001			
2/13/2024		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
8/27/2024			<0.001	<0.001	<0.001	<0.001		
8/28/2024	<0.001	<0.001					<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	151	88	138	154				
9/1/2016					299 (o)			
9/7/2016						331	382	
9/8/2016								663
11/15/2016				123	41			
11/16/2016	69	41	77					
11/17/2016						308	382	651
2/20/2017			170	158	133			
2/21/2017	68	<25						
2/22/2017						341	387	706
6/12/2017	161		132	142	61			
6/13/2017		53						
6/14/2017							316	643
6/15/2017						333		
9/26/2017	167	45	108	138	29			
9/27/2017							303	579
9/28/2017						310		
2/13/2018	165	63	141	150	61			
2/15/2018						292	332	612
6/26/2018	188	71	133	154	71			
6/27/2018						353 (X)	538 (X)	359 (X)
12/18/2018	145 (X)	78 (X)	138 (X)	147	70 (X)		358	535
12/19/2018						317		
3/19/2019	146.5 (D)	68	130	146	72	303		
3/20/2019							338	517
10/15/2019	140	66	175	144	63			
10/16/2019							281	473
12/3/2019						378		
3/3/2020	155	41	<10	130	54	263		
3/5/2020							292	489
9/15/2020	116	69	100	116	79			
9/16/2020						316	88	392
3/1/2021	98				39			
3/2/2021		43	80	96				
3/3/2021							212	422
3/4/2021						316		
9/21/2021			108	104				
9/22/2021	129	66			62	323	190	406
2/1/2022	126	72	129	124	61	354	209	449
8/23/2022	117	45	107	101	52		614	
8/24/2022						370		452
1/24/2023	93	63	124	104	64	344	615	433
8/25/2023		36		73			778	495
8/28/2023	81		80		30	391		
2/6/2024	98	54	118	113	45	413		
2/7/2024							1420	494
8/27/2024	82	51	107	101	57			
8/28/2024						421	1880	562

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E

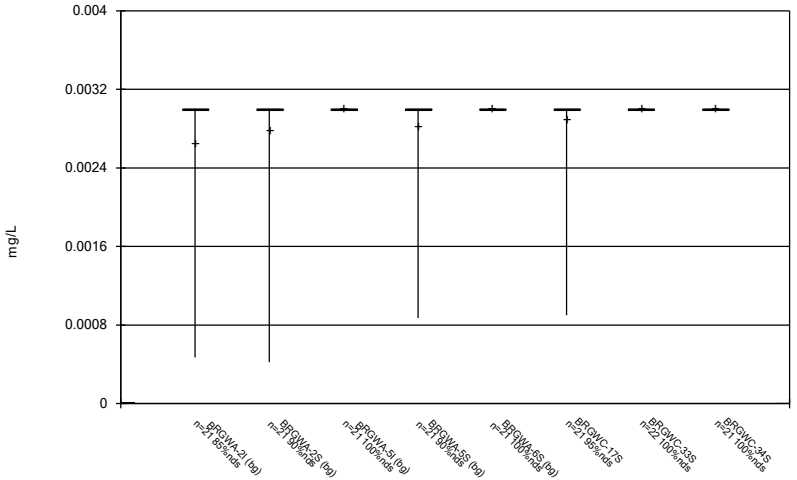
Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D	PZ-70I
9/7/2016	486	528		750				
11/17/2016	453							
11/18/2016		524						
11/21/2016				795				
2/22/2017	541							
2/23/2017		517	45	733				
4/17/2017			53					
5/15/2017			48					
6/15/2017	548	566	63	812				
9/28/2017	487	475	39	690				
2/15/2018	500	513	54	722				
6/27/2018	347 (X)							
6/28/2018		499	59 (X)	704				
12/19/2018	489	521	68					
12/20/2018				642				
1/15/2019					284			
3/19/2019		498						
3/20/2019	501		68 (X)	615				
10/16/2019	481		49	630				
10/22/2019					203			
12/3/2019		498						
3/5/2020	535	457	39	608				
9/16/2020	474	463	31					
9/17/2020				587				
3/3/2021		442	33					
3/4/2021	480			540				
9/22/2021		457						
9/23/2021	511		49	528				
2/1/2022	521	441		560				
2/2/2022			46					
8/23/2022			40	568	130	543		
8/24/2022	507	418						
9/1/2022							754	321
1/24/2023	507							
1/25/2023		418	28	484		517	443	
1/26/2023					148			272
8/25/2023			42		112			
8/29/2023	485	398		459			372	252
8/30/2023						499		
2/6/2024	502				161			
2/7/2024		435	37	393		547	342	252
8/27/2024			40	370	140	521		
8/28/2024	479	389					303	259

FIGURE B.

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

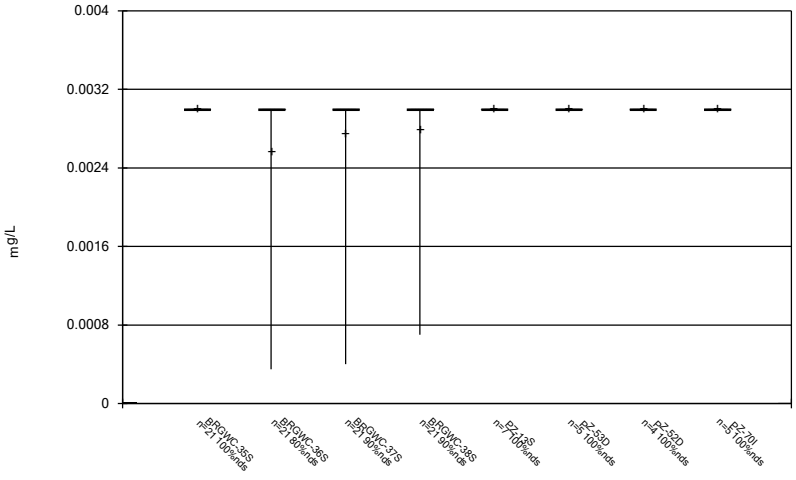
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

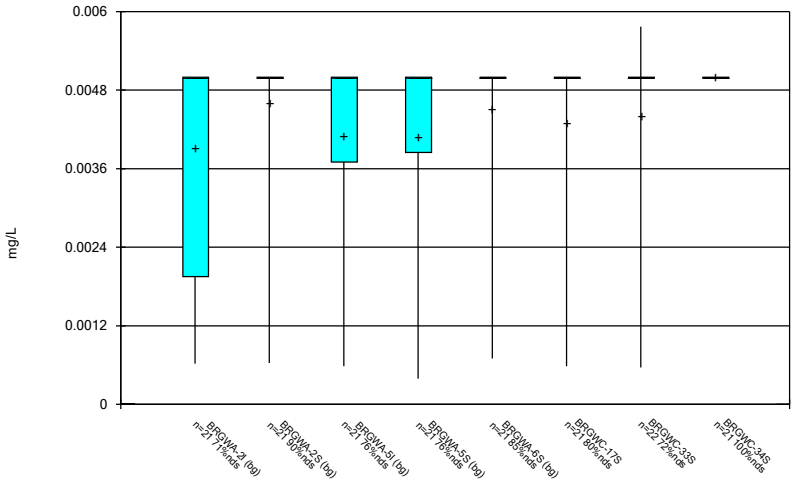
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

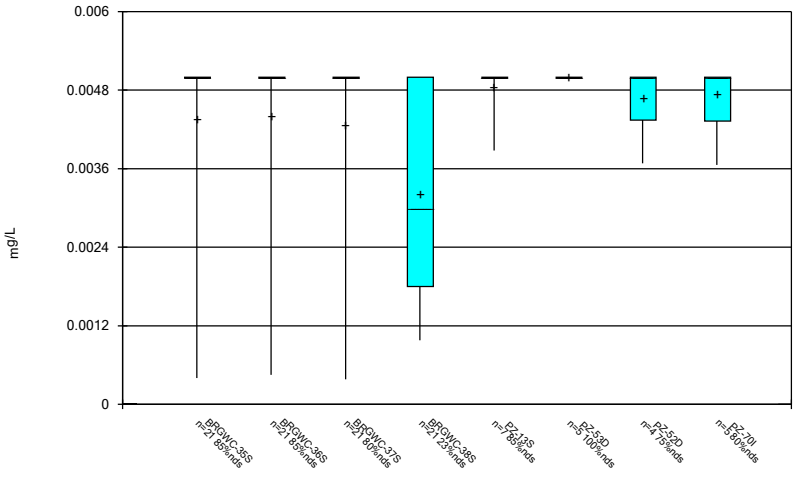
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

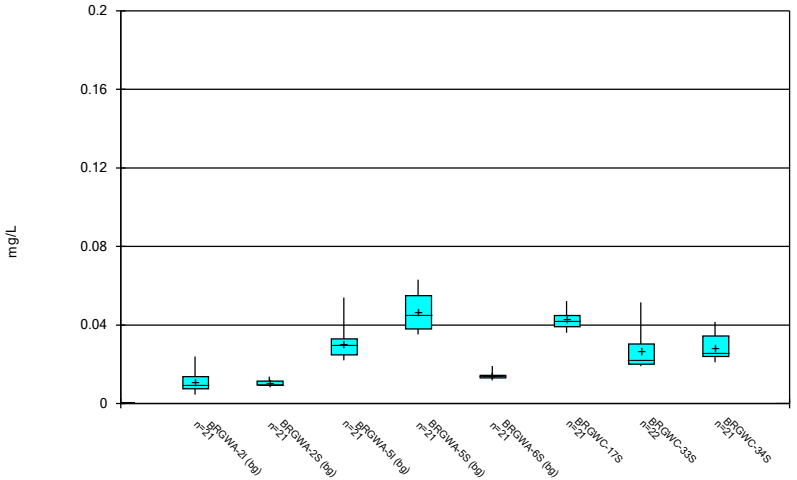
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

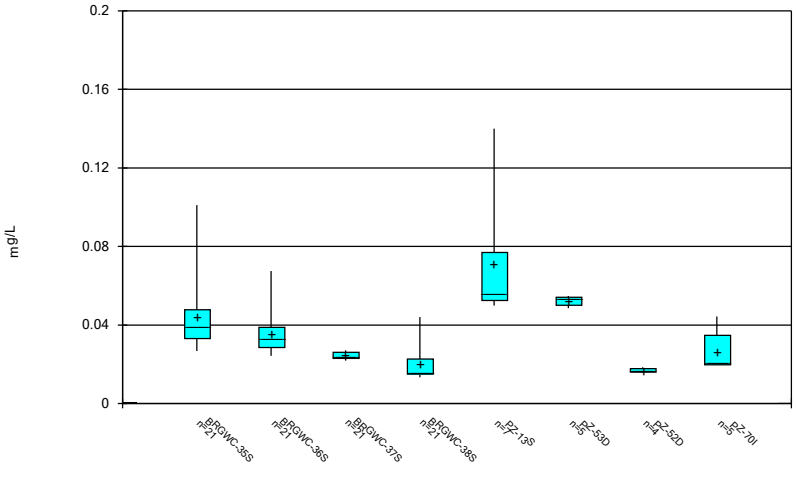
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

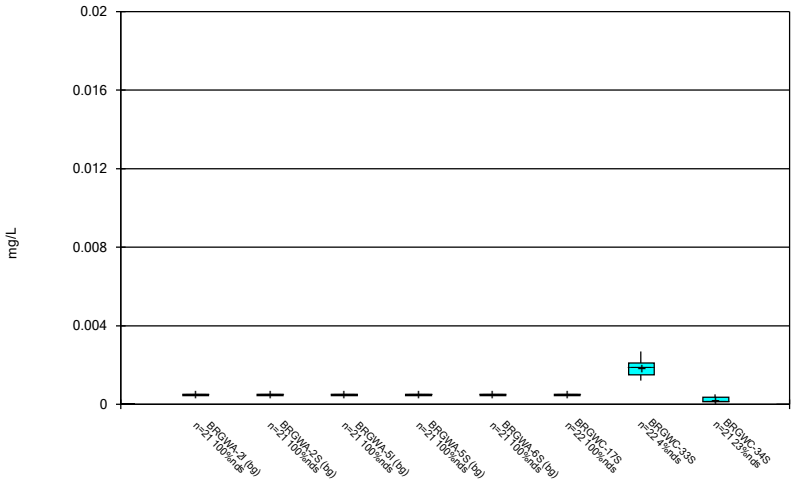
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

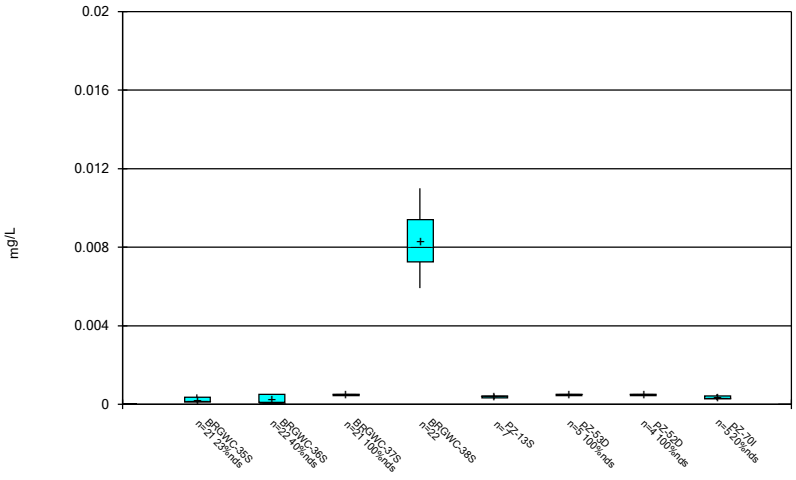
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

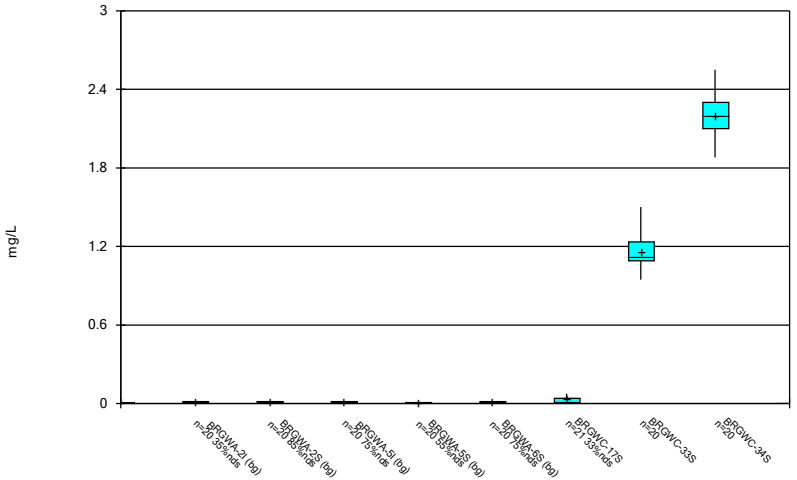
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

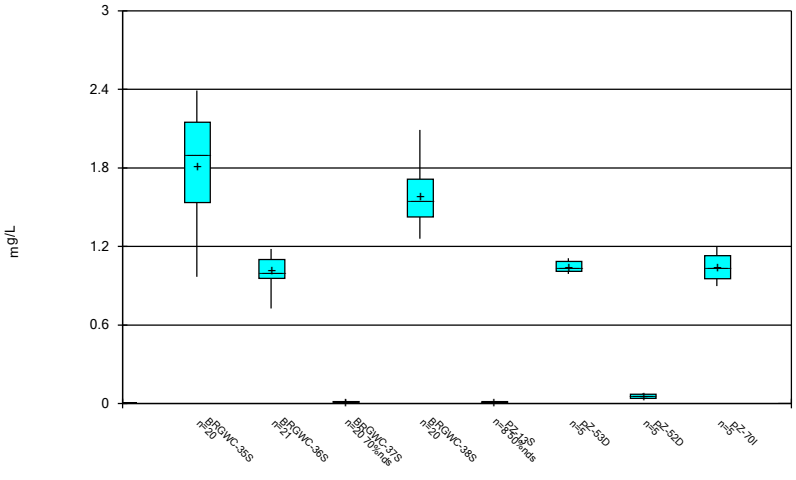
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

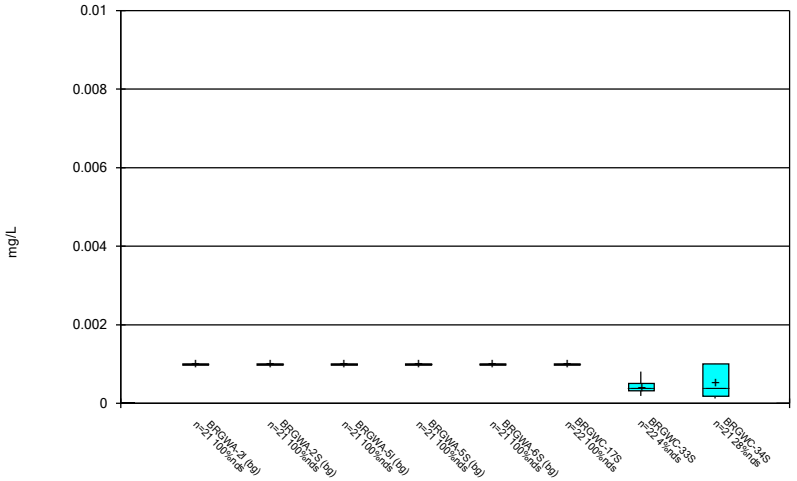
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

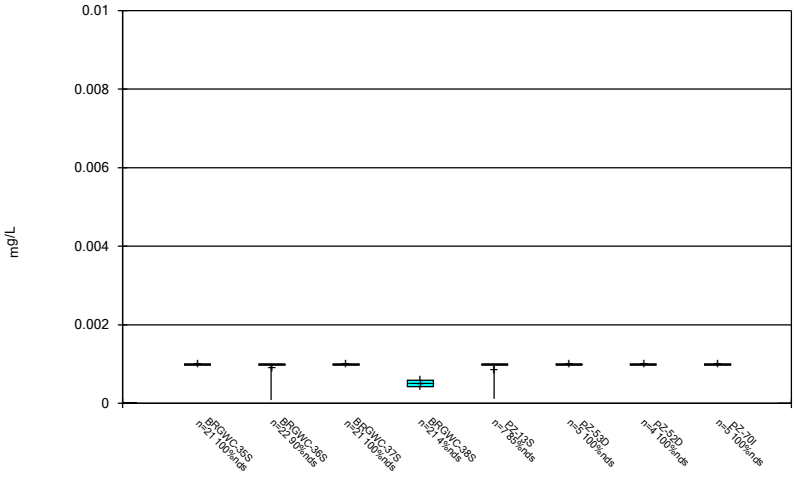
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

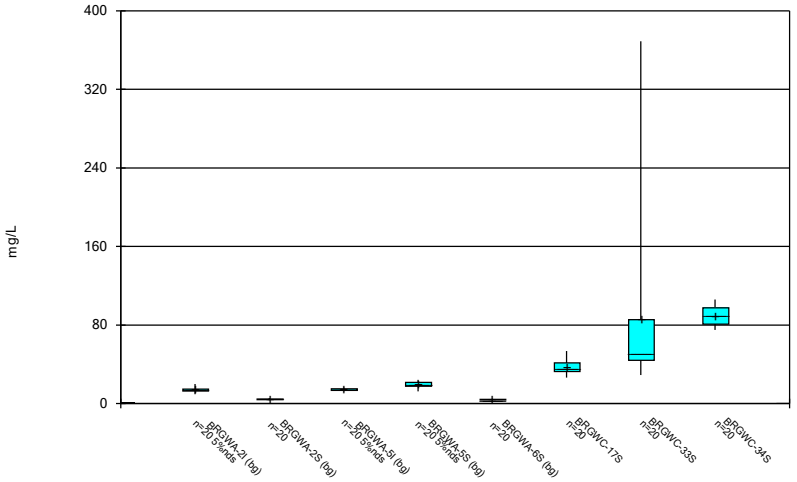
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

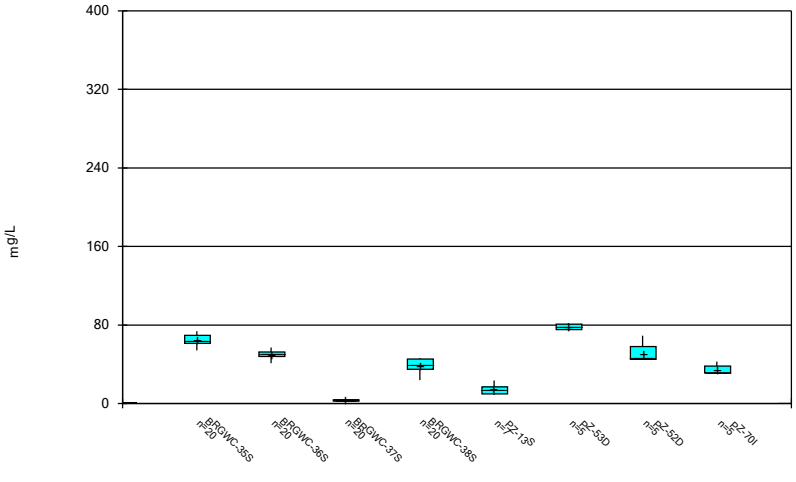
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/18/2024 11:14 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

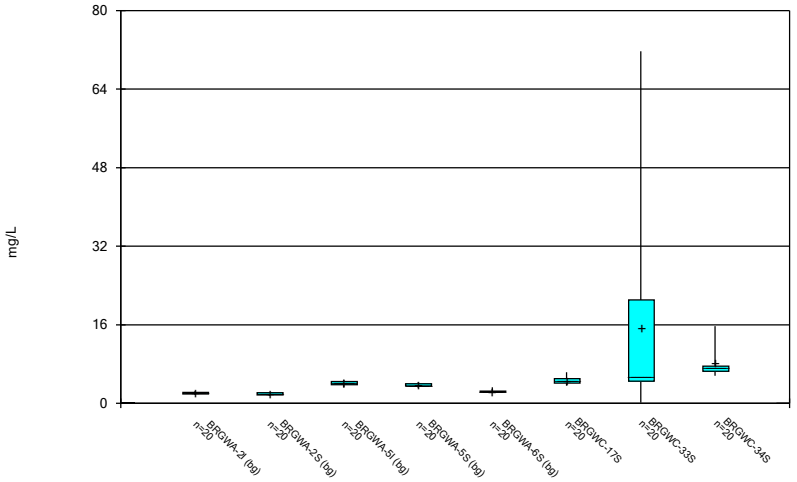
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

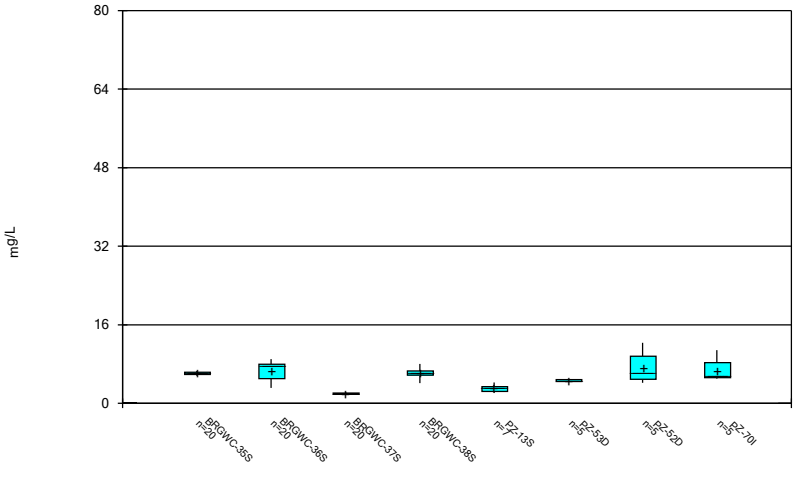
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

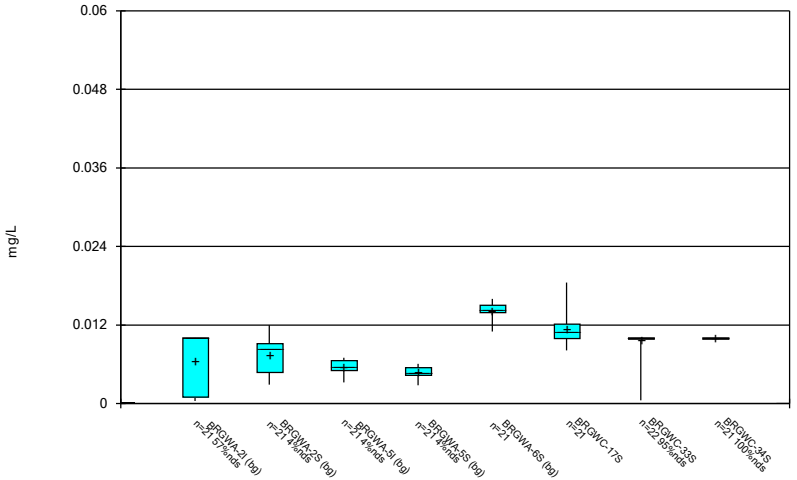
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

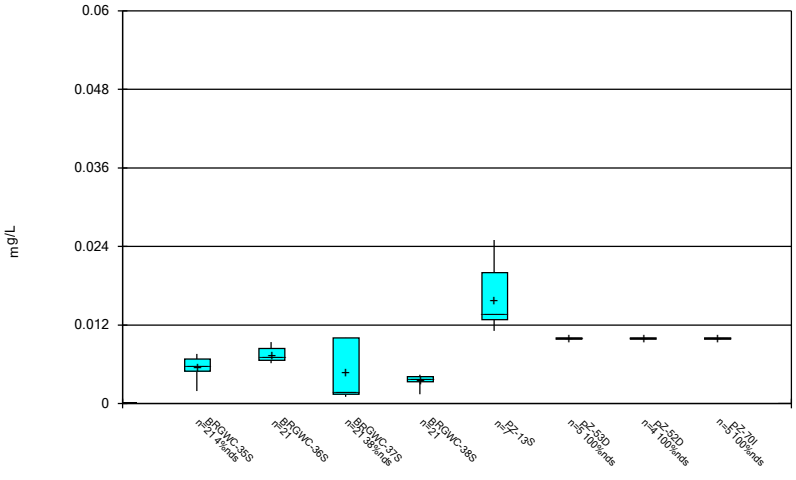
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

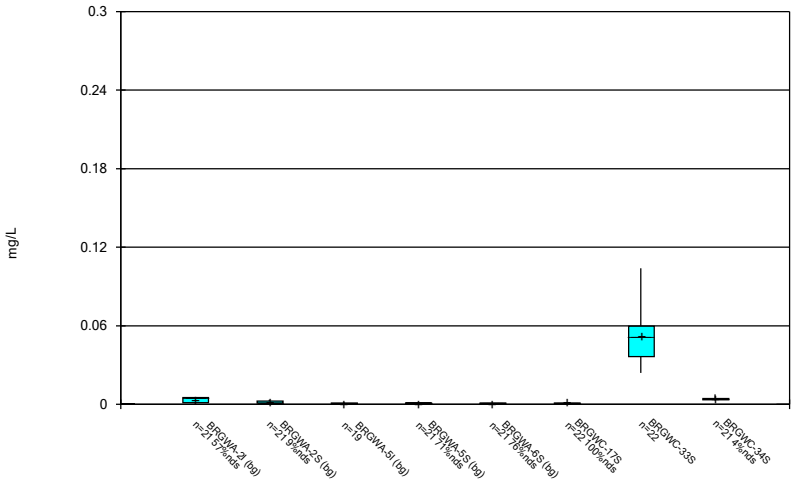
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

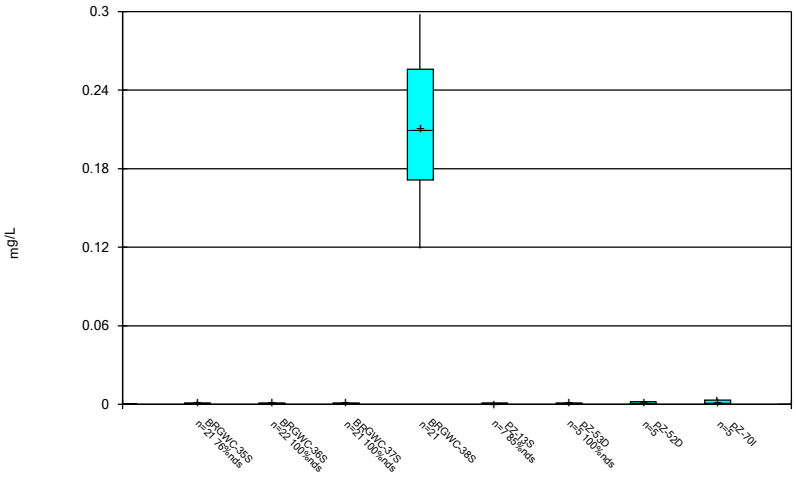
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

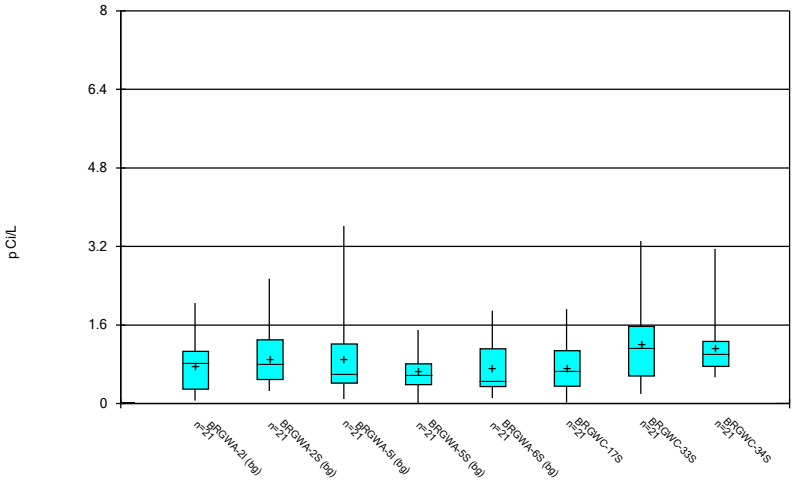
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

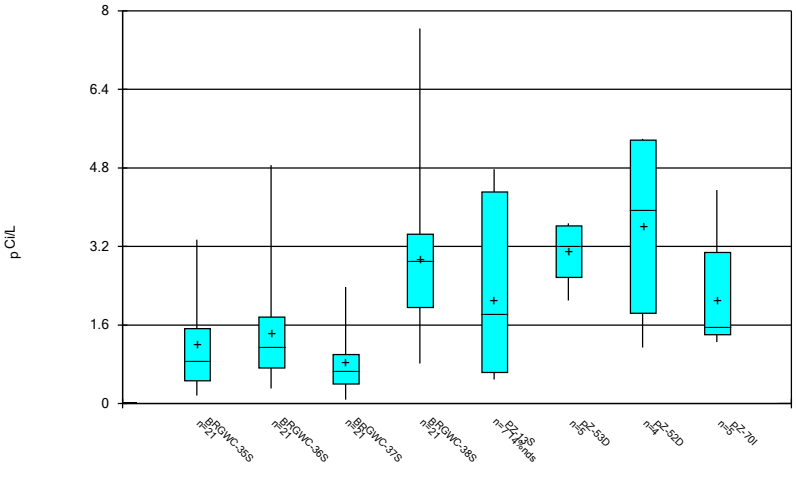
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

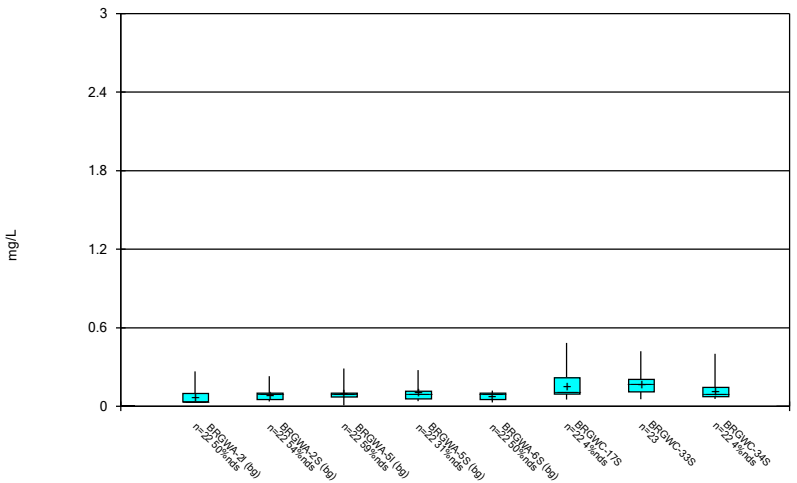
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

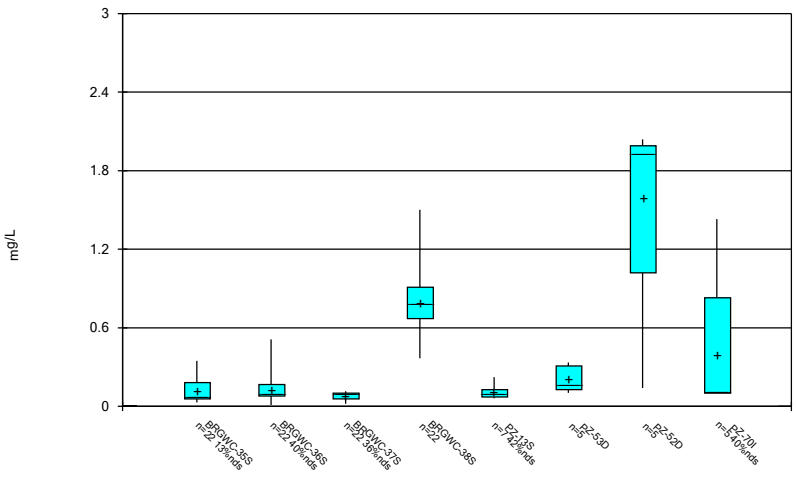
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

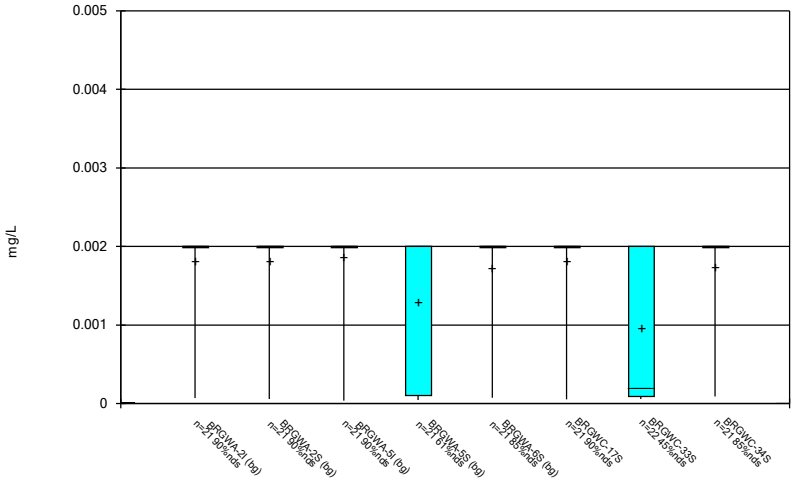
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

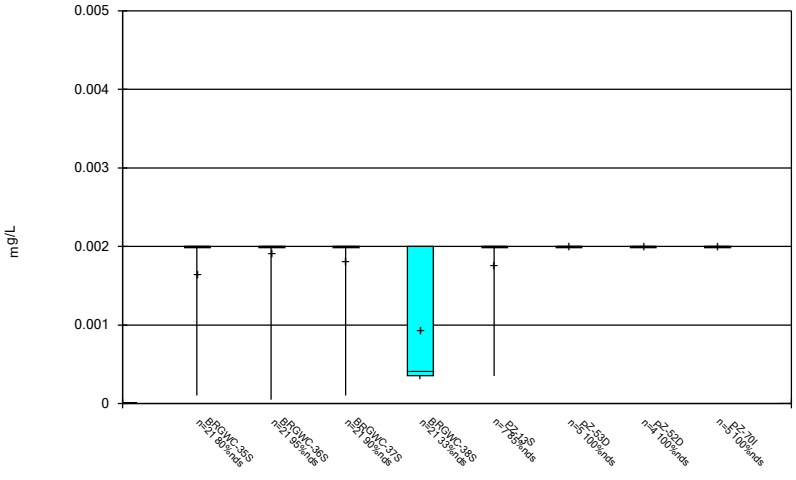
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

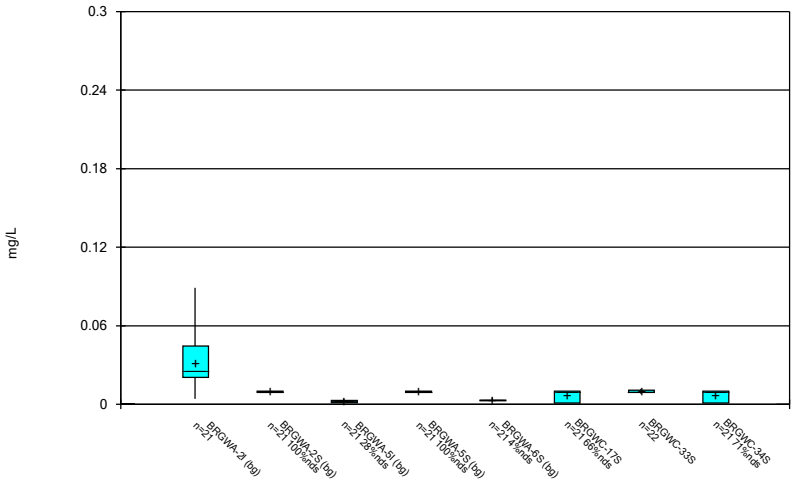
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

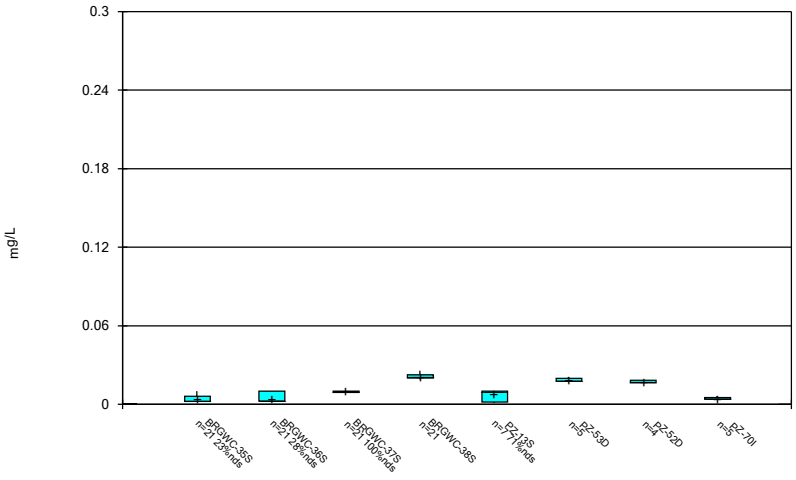
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

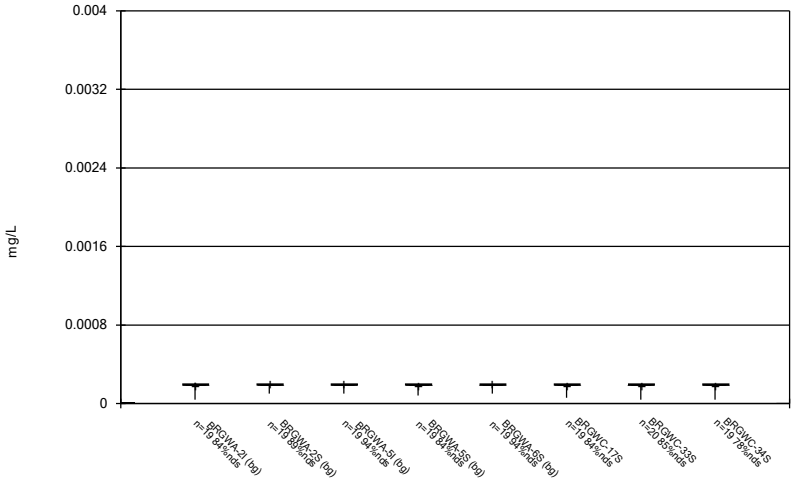
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

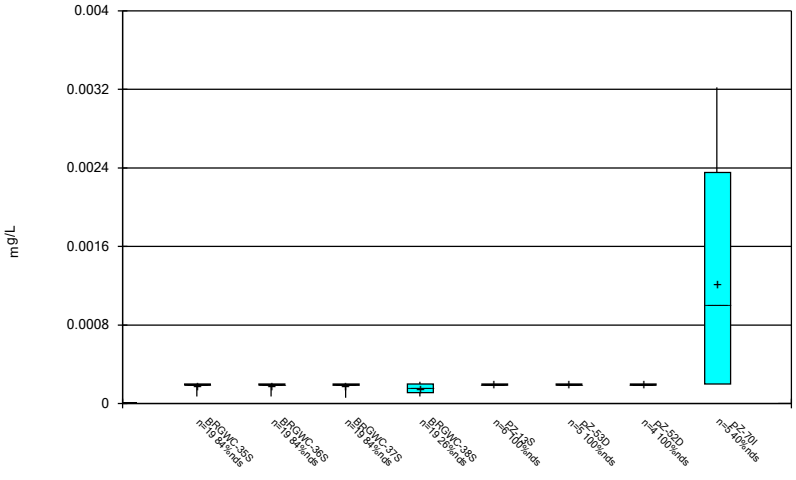
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

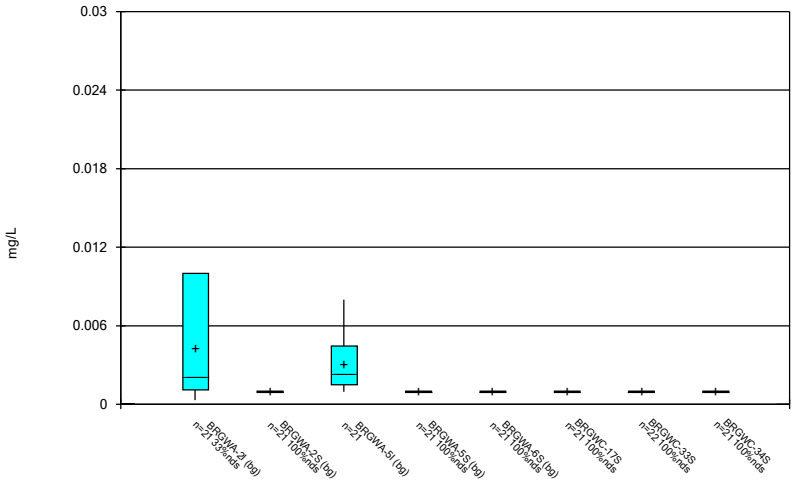
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

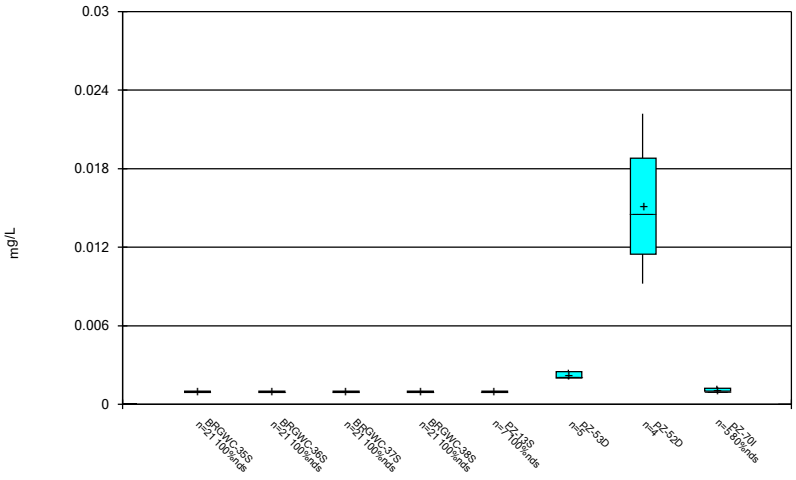
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

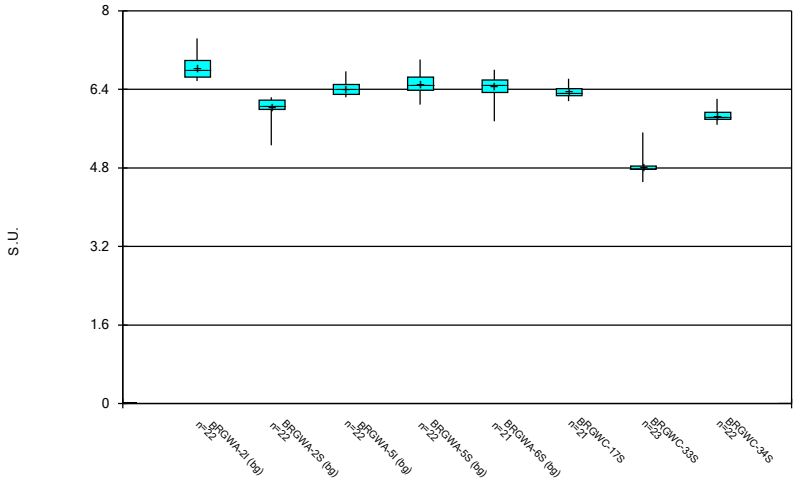
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

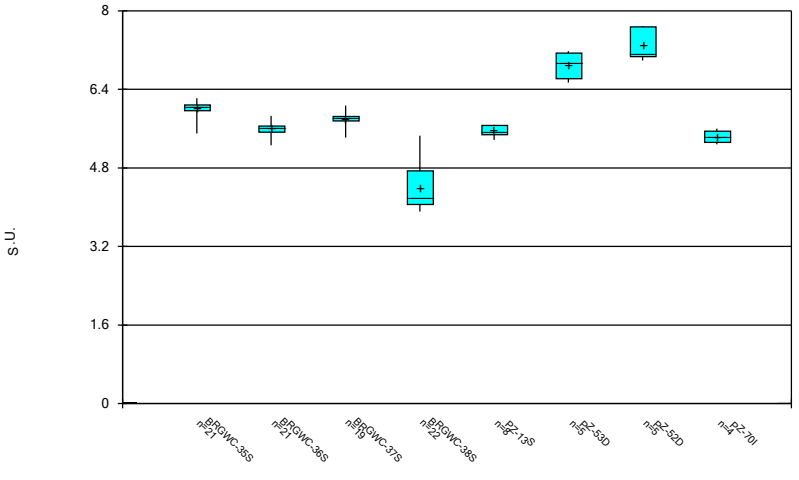
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

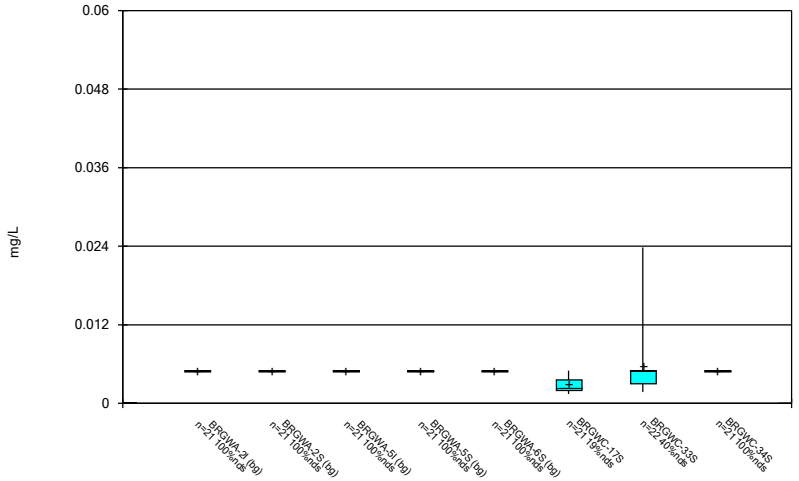
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

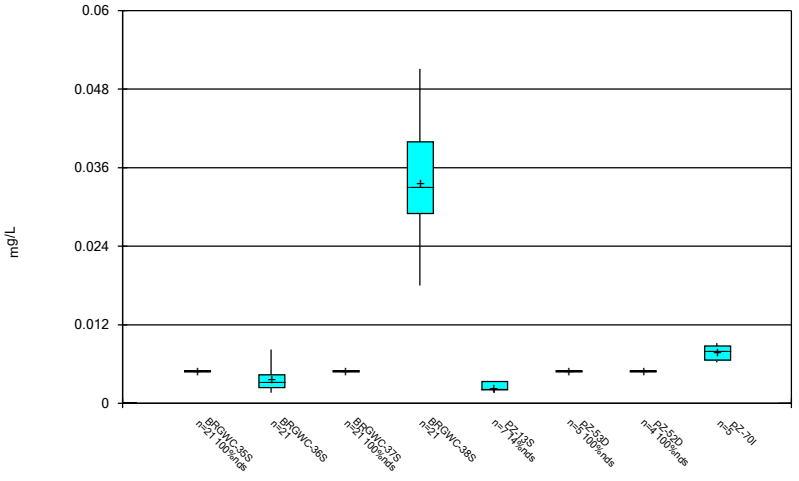
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

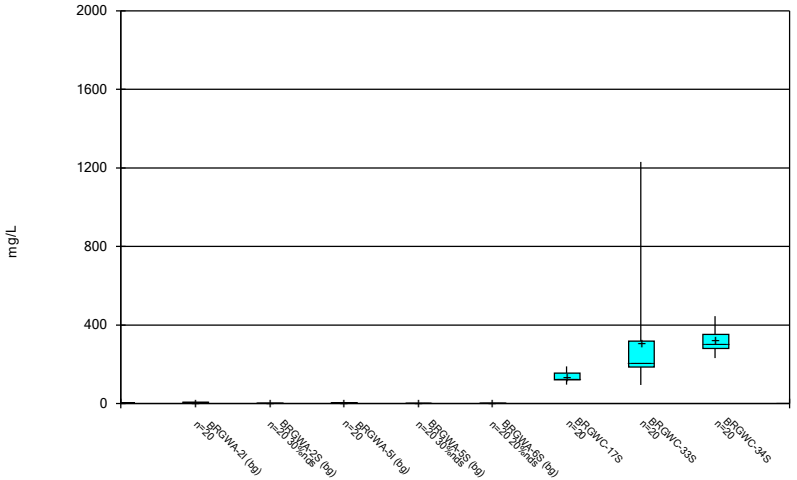
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

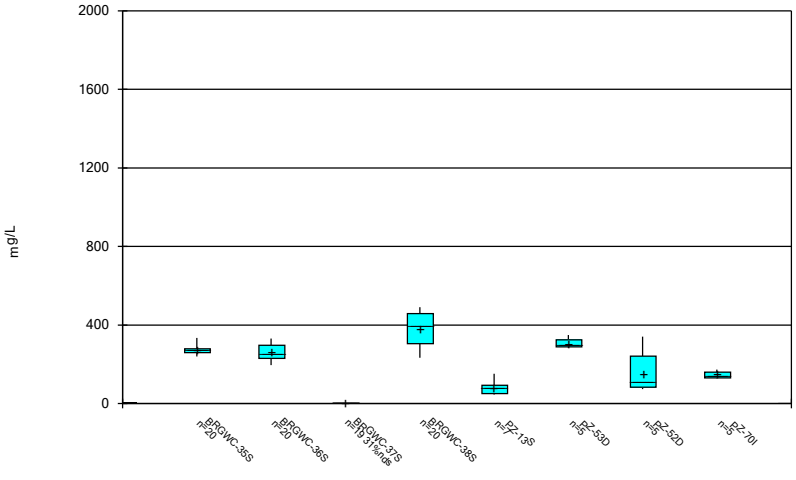
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

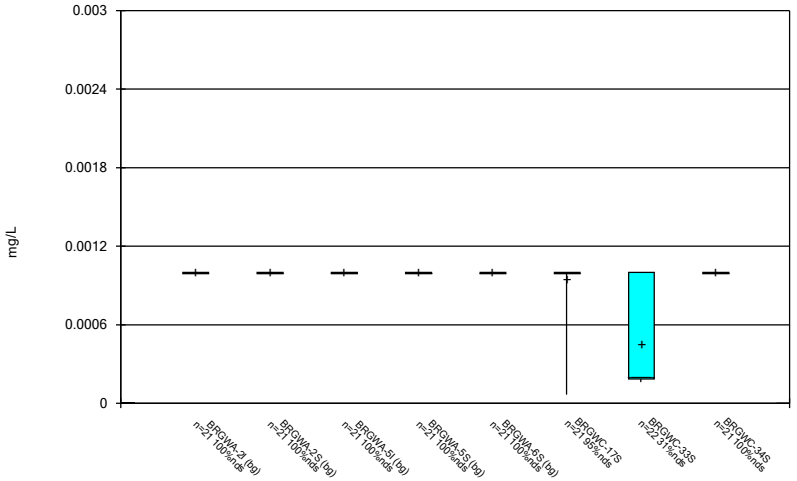
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

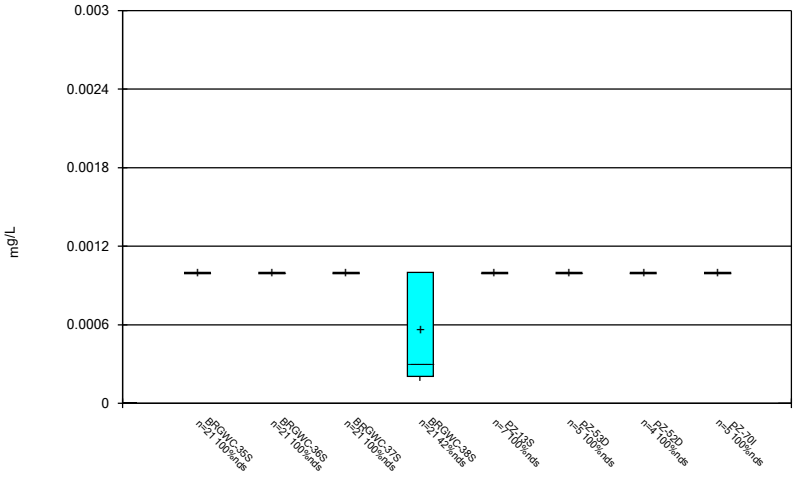
Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

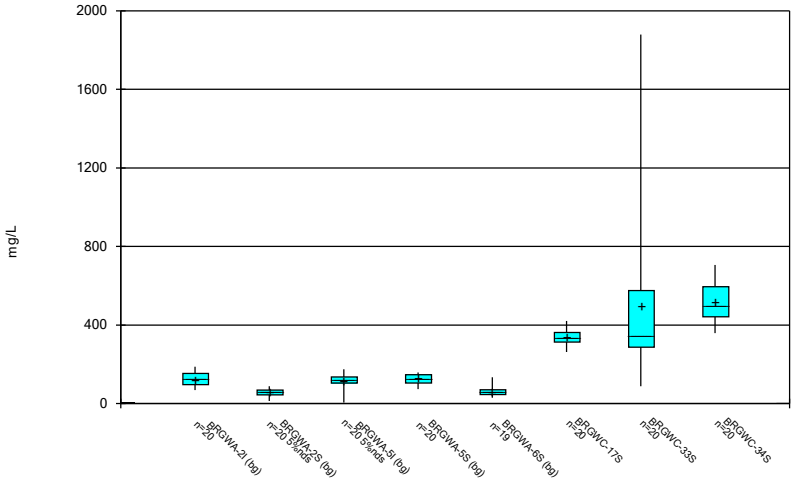
Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

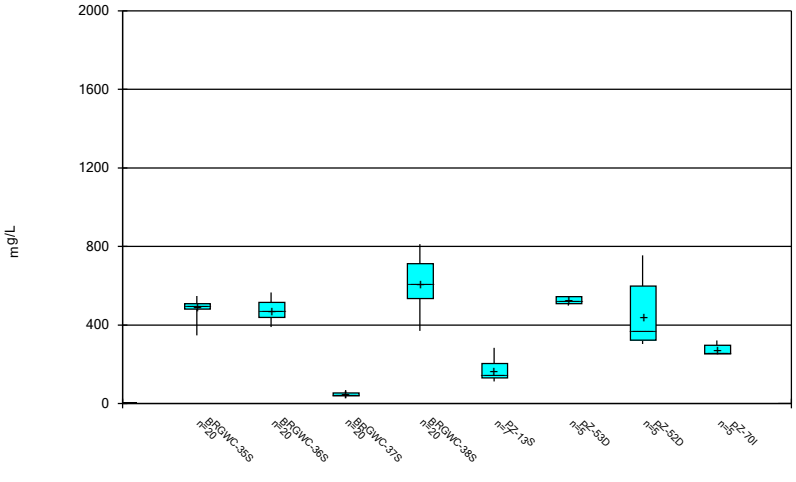
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/18/2024 11:15 AM View: Descriptive Pond E
Plant Branch Client: Southern Company Data: Plant Branch AP

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:02 PM

	BRGWA-5I Cobalt (mg/L)	BRGWC-37S Sulfate (mg/L)	BRGWA-6S Total Dissolved Solids (mg/L)
9/1/2016			299 (o)
11/16/2016	<0.01 (o)		
2/13/2018	<0.01 (o)		
2/15/2018		1.9 (o)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	8/28/2024	0.0721	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	8/28/2024	1.25	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	8/28/2024	1.88	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	8/28/2024	2.1	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	8/28/2024	1.04	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	8/27/2024	1.31	Yes	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	8/28/2024	46.4	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	8/28/2024	369	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	8/28/2024	95.9	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	8/28/2024	59.5	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	8/28/2024	41	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	8/27/2024	26.7	Yes	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	8/28/2024	4.95	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	8/28/2024	71.7	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	8/28/2024	15.5	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	8/28/2024	6.21	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	8/28/2024	7.81	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	8/27/2024	6.53	Yes	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	8/27/2024	0.366	Yes	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
pH, Field (S.U.)	BRGWC-33S	7.066	5.846	8/28/2024	4.51	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-36S	7.066	5.846	8/28/2024	5.8	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-37S	7.066	5.846	8/27/2024	5.82	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-38S	7.066	5.846	8/27/2024	4.96	Yes	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	8/28/2024	188	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	8/28/2024	1230	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	8/28/2024	308	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	8/28/2024	251	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	8/28/2024	201	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	8/27/2024	233	Yes	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-17S	176.2	n/a	8/28/2024	421	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-33S	176.2	n/a	8/28/2024	1880	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-34S	176.2	n/a	8/28/2024	562	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-35S	176.2	n/a	8/28/2024	479	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-36S	176.2	n/a	8/28/2024	389	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BRGWC-38S	176.2	n/a	8/27/2024	370	Yes	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:05 PM

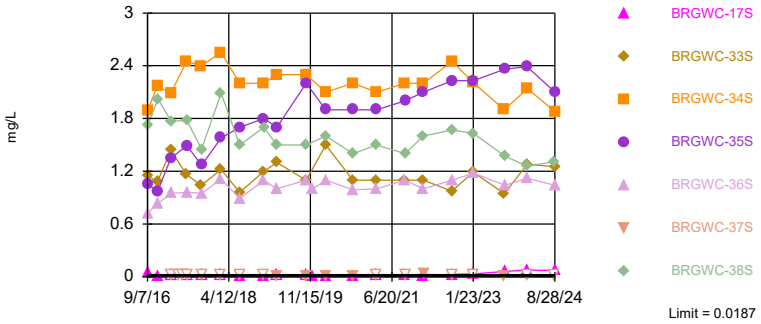
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**8/28/2024**	**0.0721**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**8/28/2024**	**1.25**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**8/28/2024**	**1.88**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**8/28/2024**	**2.1**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**8/28/2024**	**1.04**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	8/27/2024	0.015ND	No	100	n/a	n/a	65	n/a	n/a	0.0001929	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**8/27/2024**	**1.31**	**Yes**	**100**	**n/a**	**n/a**	**65**	**n/a**	**n/a**	**0.0001929**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**8/28/2024**	**46.4**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**8/28/2024**	**369**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**8/28/2024**	**95.9**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**8/28/2024**	**59.5**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**8/28/2024**	**41**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	8/27/2024	3.64	No	100	n/a	n/a	3	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	**BRGWC-38S**	**24**	**n/a**	**8/27/2024**	**26.7**	**Yes**	**100**	**n/a**	**n/a**	**3**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**8/28/2024**	**4.95**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**8/28/2024**	**71.7**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**8/28/2024**	**15.5**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**8/28/2024**	**6.21**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**8/28/2024**	**7.81**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	8/27/2024	1.9	No	100	n/a	n/a	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**8/27/2024**	**6.53**	**Yes**	**100**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	8/28/2024	0.218	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	8/28/2024	0.204	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	8/28/2024	0.11	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	8/28/2024	0.0609J	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	8/28/2024	0.0861J	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	8/27/2024	0.0777J	No	110	n/a	n/a	49.09	n/a	n/a	0.0001639	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**8/27/2024**	**0.366**	**Yes**	**110**	**n/a**	**n/a**	**49.09**	**n/a**	**n/a**	**0.0001639**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	BRGWC-17S	7.066	5.846	8/28/2024	6.49	No	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-33S**	**7.066**	**5.846**	**8/28/2024**	**4.51**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	BRGWC-34S	7.066	5.846	8/28/2024	6.21	No	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	BRGWC-35S	7.066	5.846	8/28/2024	5.87	No	109	6.456	0.3251	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (S.U.)	**BRGWC-36S**	**7.066**	**5.846**	**8/28/2024**	**5.8**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-37S**	**7.066**	**5.846**	**8/27/2024**	**5.82**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (S.U.)	**BRGWC-38S**	**7.066**	**5.846**	**8/27/2024**	**4.96**	**Yes**	**109**	**6.456**	**0.3251**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**8/28/2024**	**188**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**8/28/2024**	**1230**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**8/28/2024**	**308**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**8/28/2024**	**251**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**8/28/2024**	**201**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	8/27/2024	0.279J	No	100	n/a	n/a	16	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**8/27/2024**	**233**	**Yes**	**100**	**n/a**	**n/a**	**16**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-17S**	**176.2**	**n/a**	**8/28/2024**	**421**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-33S**	**176.2**	**n/a**	**8/28/2024**	**1880**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-34S**	**176.2**	**n/a**	**8/28/2024**	**562**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-35S**	**176.2**	**n/a**	**8/28/2024**	**479**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**176.2**	**n/a**	**8/28/2024**	**389**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	BRGWC-37S	176.2	n/a	8/27/2024	40	No	99	96.72	42.22	2.02	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**176.2**	**n/a**	**8/27/2024**	**370**	**Yes**	**99**	**96.72**	**42.22**	**2.02**	**None**	**No**	**0.001075**	**Param Inter 1 of 2**

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 100 background values. 65% NDs. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

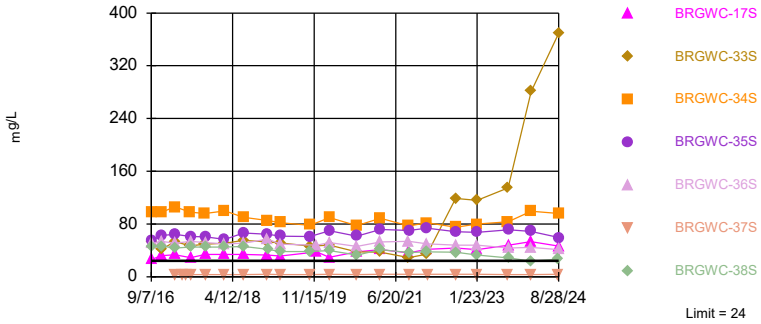
Constituent: Boron Analysis Run 11/15/2024 5:03 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 3% NDs. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

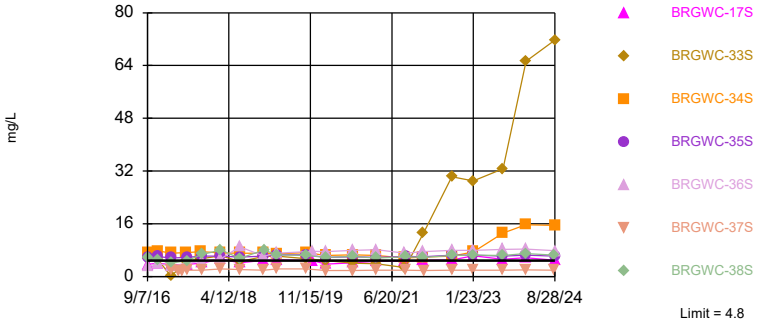
Constituent: Calcium Analysis Run 11/15/2024 5:03 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

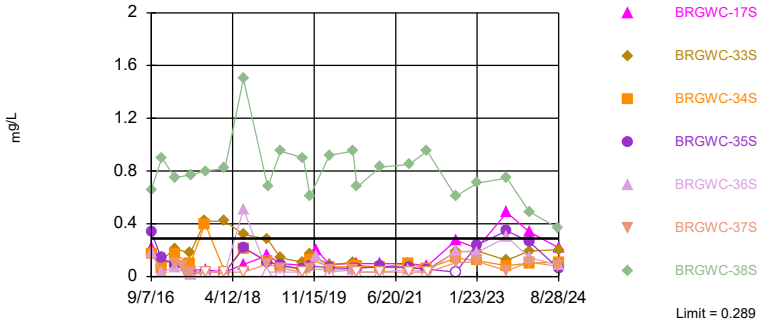
Constituent: Chloride Analysis Run 11/15/2024 5:04 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 110 background values. 49.09% NDs. Annual per-constituent alpha = 0.002292. Individual comparison alpha = 0.0001639 (1 of 2). Comparing 7 points to limit.

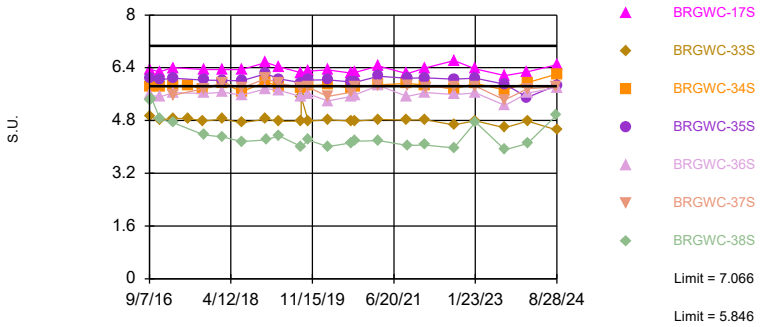
Constituent: Fluoride Analysis Run 11/15/2024 5:04 PM View: Pond E - Appendix III
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limits: BRGWC-33S, BRGWC-36S, BRGWC-37S, BRGWC-38S

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.456, Std. Dev.=0.3251, n=109. Normality test: Chi Squared @alpha = 0.01, calculated = 6.505, critical = 14.07. Kappa = 1.876 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005373. Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 11/15/2024 5:04 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

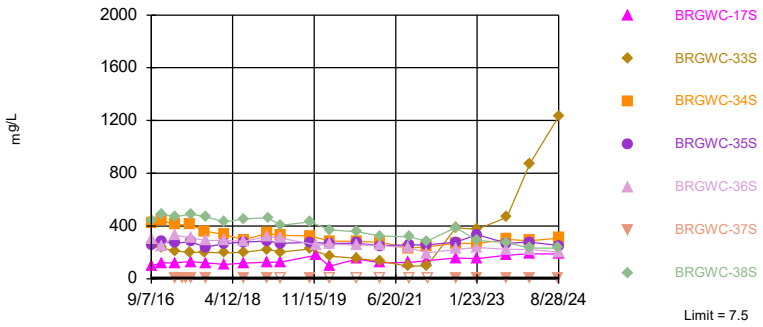
Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 16% NDs. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/15/2024 5:04 PM View: Pond E - Appendix III

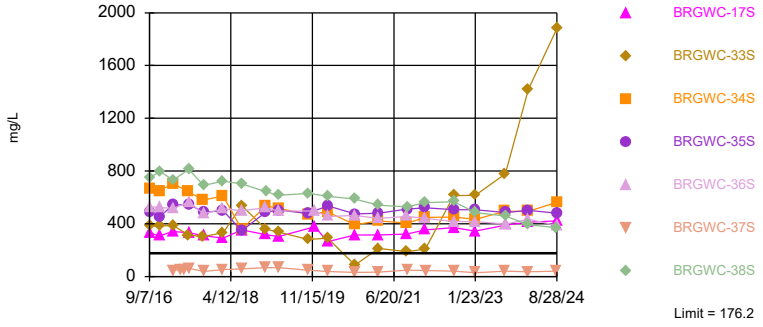
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=96.72, Std. Dev.=42.22, n=99, 2.02% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9774, critical = 0.967. Kappa = 1.882 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:04 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.015					
9/1/2016					<0.015				
9/7/2016						1.15	1.06	0.725	1.73
9/8/2016									
11/15/2016		0.0085 (J)			0.0123 (J)				
11/16/2016	0.0117 (J)		0.0187 (J)	0.0109 (J)					
11/17/2016						1.08	0.967		
11/18/2016								0.831	
11/21/2016									2.02
2/20/2017		0.0093 (J)	0.0066 (J)		0.0157 (J)				
2/21/2017	0.0088 (J)			<0.015					
2/22/2017						1.44	1.35		
2/23/2017								0.949	1.77
4/17/2017									
5/15/2017									
6/12/2017	0.0133 (J)	<0.015	<0.015		<0.015				
6/13/2017				<0.015					
6/14/2017						1.16			
6/15/2017							1.49	0.961	1.78
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.015	<0.015				
9/27/2017						1.04			
9/28/2017							1.27	0.948	1.45
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.015	<0.015				
2/15/2018						1.22	1.58	1.11	2.09
6/26/2018	0.012 (J)	0.0056 (J)	0.0042 (J)	<0.015	0.0041 (J)				
6/27/2018						0.96 (J+X)	1.7 (J+X)		
6/28/2018								0.89	1.5
12/18/2018	0.0086 (J)	0.0062 (J)	<0.015	<0.015	<0.015	1.2			
12/19/2018							1.8	1.1	
12/20/2018									1.7
3/19/2019	0.00565 (JD)	<0.015	<0.015	<0.015	<0.015			1	
3/20/2019						1.3	1.7		1.5
10/15/2019	0.0067 (J)	0.006 (J)	<0.015	<0.015	0.01 (J)				
10/16/2019						1.1	2.2		1.5
10/17/2019								1.1	
12/3/2019								1	
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.015	<0.015				
3/5/2020						1.5	1.9	1.1	1.6
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015				
9/16/2020						1.1	1.9	0.99	
9/17/2020									1.4
3/1/2021	<0.015				<0.015				
3/2/2021		0.0071 (J)	0.0053 (J)	<0.015					
3/3/2021						1.1		1	
3/4/2021							1.9		1.5
9/21/2021		<0.015	<0.015						
9/22/2021	<0.015			<0.015	<0.015	1.1		1.1	
9/23/2021							2		1.4
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	1.1	2.1	1	1.6
2/2/2022									
8/23/2022	0.00592 (J)	0.00538 (J)	<0.015	0.00532 (J)	<0.015	0.975			1.67
8/24/2022							2.23	1.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	1.19	2.23		
1/25/2023								1.18	1.63
8/31/2023	0.00649 (J)	0.00764 (J)	0.0073 (J)	0.00738 (J)	0.00611 (J)				
9/1/2023						0.946			
9/6/2023									
9/7/2023							2.36	1.04	1.37
2/12/2024	<0.015	<0.015	<0.015	<0.015	<0.015		2.39		
2/14/2024						1.28		1.12	1.26
8/27/2024	<0.015	0.00538 (J)	<0.015	<0.015	<0.015				1.31
8/28/2024						1.25	2.1	1.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.0449 (J)		
9/8/2016		1.89	
11/15/2016			
11/16/2016			
11/17/2016	0.0067 (J)	2.17	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	<0.015	2.09	
2/23/2017			<0.015
4/17/2017			<0.015
5/15/2017			<0.015
6/12/2017			
6/13/2017			
6/14/2017		2.45	
6/15/2017	<0.015		<0.015
9/26/2017			
9/27/2017		2.4	
9/28/2017	<0.015		<0.015
2/13/2018			
2/15/2018	<0.015	2.55	<0.015
6/26/2018			
6/27/2018	0.0088 (J+X)	2.2 (J+X)	
6/28/2018			<0.015 (X)
12/18/2018		2.2	
12/19/2018	0.0045 (J)		<0.015
12/20/2018			
3/19/2019	<0.015		
3/20/2019		2.3	0.004 (J)
10/15/2019			
10/16/2019		2.3	0.0055 (J)
10/17/2019	<0.015		
12/3/2019	0.0063 (J)		
3/3/2020	0.0075 (J)		
3/5/2020		2.1	0.0076 (J)
9/15/2020			
9/16/2020	0.0066 (J)	2.2	0.0062 (J)
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		2.1	<0.015
3/4/2021	<0.015		
9/21/2021			
9/22/2021	0.02 (J)	2.2	
9/23/2021			<0.015
2/1/2022	0.013 (J)	2.2	
2/2/2022			0.032 (J)
8/23/2022			<0.015
8/24/2022	0.0273	2.45	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/24/2023	0.0326	2.21	
1/25/2023			<0.015
8/31/2023			0.00802 (J)
9/1/2023		1.9	
9/6/2023	0.0601		
9/7/2023			
2/12/2024	0.0758		
2/14/2024		2.14	<0.015
8/27/2024			<0.015
8/28/2024	0.0721	1.88	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
8/31/2016	12.6	19.6	13.5	4.09					
9/1/2016					3.3				
9/7/2016						53.4	54.1	50.6	45.9
9/8/2016									
11/15/2016		21.7			3.44				
11/16/2016	12.1		14.9	4.25					
11/17/2016						41.3	62.6		
11/18/2016								53.9	
11/21/2016									46.4
2/20/2017		21.1	13.9		3.52				
2/21/2017	11.4			4.02					
2/22/2017						53.1	64.6		
2/23/2017								51	43.5
4/17/2017									
5/15/2017									
6/12/2017	9.34	21.5	13.7		3.11				
6/13/2017				3.84					
6/14/2017						47.1			
6/15/2017							61.3	53.8	45.3
9/26/2017	14.3	24	14.4	3.31	3.15				
9/27/2017						49.5			
9/28/2017							60.8	51.8	45.1
2/13/2018	<25	<25	<25	3.94	3.65				
2/15/2018						50.9	56.6	50.1	45.3
6/26/2018	16 (J)	23.5 (J)	13.5 (J)	3.6	3.3				
6/27/2018						55.1	66.2		
6/28/2018								51	45.9
12/18/2018	14.5 (J)	19.8 (J)	16.4 (J)	3.8	3.5	52.7			
12/19/2018							64.4	57.1	
12/20/2018									41.8
3/19/2019	14.3 (JD)	21.4 (J)	12.3 (J)	3.9	3.6			49.5	
3/20/2019						51.4	61.8		38.2
10/15/2019	15.1	20	14.4	3.7	3.5				
10/16/2019						46.5	61.2		38.4
12/3/2019								47.8	
3/3/2020	20	23.2	14.9	4	5				
3/5/2020						48.1	69.9	51.7	39.8
9/15/2020	14.1	16.8	12.7	3.9	3.7				
9/16/2020						37.9	61.8	45.9	
9/17/2020									33.1
3/1/2021	15.4				4.2				
3/2/2021		16.8	13.2	4					
3/3/2021						37.5		53	
3/4/2021							71.8		41
9/21/2021		19.1	14.1						
9/22/2021	15.9			4.3	4.1	28.9		53.7	
9/23/2021							70.5		36.8
2/1/2022	14.4	19.1	14.5	4.4	4.2	34.3	73.8	49.7	37.8
2/2/2022									
8/23/2022	13.9	18.2	14.3	4.65	3.97	119			37.1
8/24/2022							68.5	48.1	
1/24/2023	14.2	19.4	15.8	4.86	3.9	116	67.5		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
1/25/2023								48.2	32.8
8/31/2023	12.6	14.9	14.3	5.02	3.79				
9/1/2023						135			
9/6/2023								43.4	
9/7/2023							71.4		28.7
2/12/2024	14.1	18.2	16	5.25	4.27		68.9		
2/13/2024								44.4	23.7
2/14/2024						281			
8/27/2024	12.4	17.2	15.9	5.45	4.19				26.7
8/28/2024						369	59.5	41	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	26.3		
9/8/2016		97.3	
11/15/2016			
11/16/2016			
11/17/2016	31.8	97.6	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	33.5	106	
2/23/2017			3.26
4/17/2017			3.23
5/15/2017			2.97 (B-01)
6/12/2017			
6/13/2017			
6/14/2017		98	
6/15/2017	29		3.15
9/26/2017			
9/27/2017		95.8	
9/28/2017	34.1		3.26
2/13/2018			
2/15/2018	33.8	100	3.39
6/26/2018			
6/27/2018	34.1	90.1	
6/28/2018			3.1
12/18/2018		85.1	
12/19/2018	33.1		3.6
12/20/2018			
3/19/2019	31.6		
3/20/2019		82	3.3
10/15/2019			
10/16/2019		78.2	3.4
12/3/2019	37.7		
3/3/2020	29.7		
3/5/2020		89.6	3.7
9/15/2020			
9/16/2020	37.9	77.7	3.2
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		88.6	3.6
3/4/2021	41.2		
9/21/2021			
9/22/2021	36.4	76.9	
9/23/2021			3.7
2/1/2022	41.5	81.7	
2/2/2022			3.7
8/23/2022			3.7
8/24/2022	43.6	75	
1/24/2023	41.3	80	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/25/2023			3.65
8/31/2023			3.47
9/1/2023		83.4	
9/6/2023			
9/7/2023	47.9		
2/12/2024	53.3		
2/13/2024			3.54
2/14/2024		99.2	
8/27/2024			3.64
8/28/2024	46.4	95.9	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
8/31/2016	2.3	3.6	4.4	2					
9/1/2016					2.5				
9/7/2016						5.3	5.8	3.1	5.8
9/8/2016									
11/15/2016		4			2.3				
11/16/2016	2		4.4	1.8					
11/17/2016						5.45 (D)	6.1 (D)		
11/18/2016								3.95 (D)	
11/21/2016									5.05 (D)
2/20/2017		3.9	4.8		2.4				
2/21/2017	2			1.8					
2/22/2017						0.12 (J)	5.6		
2/23/2017								3.2	4.1
4/17/2017									
5/15/2017									
6/12/2017	2.1	3.8	4.2		2.2				
6/13/2017				1.7					
6/14/2017						4.5			
6/15/2017							5.8	4	4.8
9/26/2017	2	4.1	4.4	1.8	2.3				
9/27/2017						5.4			
9/28/2017							6.2	4.6	6.7
2/13/2018	2.1	4.1	4.7	1.7	2.3				
2/15/2018						6.3	6.2	5.4	8
6/26/2018	2.4	4.1	4.5	2.2	2.6				
6/27/2018						4.5	5.9		
6/28/2018								9 (J-X)	5.5 (J-X)
12/18/2018	1.8	3.8	4.5	1.9	2.3	6.1			
12/19/2018							6.2 (J-X)	6.2 (J-X)	
12/20/2018									8 (J-X)
3/19/2019	2.45 (D)	4.2	4.5	2	2.6			7.1	
3/20/2019						6.2	6.6		6.6
10/15/2019	2.2	3.7	4.2	1.9	2.4				
10/16/2019						5.4	6.6		6.4
12/3/2019								7.7	
3/3/2020	1.9	3.6	3.9	1.9	2.9				
3/5/2020						4.8	5.8	7.6	5.8
9/15/2020	1.9	3.7	3.7	1.7	2.3				
9/16/2020						4.1	6	7.9	
9/17/2020									6.1
3/1/2021	1.8				2.1				
3/2/2021		3.7	3.8	1.7					
3/3/2021						3.9		8.1	
3/4/2021							5.8		5.6
9/21/2021		3.2	3.2						
9/22/2021	1.7			1.5	2.1	2.7		7.1	
9/23/2021							6.1		6
2/1/2022	1.8	3.4	3.5	1.6	2.1	13.1	6	7.6	5.8
2/2/2022									
8/23/2022	2.02	3.59	3.64	2.18	2.39	30.3			6.42
8/24/2022							6.53	7.96	
1/24/2023	2.09	3.56	3.93	2.16	2.3	29	6.46		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
1/25/2023								7.93	6.53
8/23/2023	1.9	3.37	3.53	2.14	2.34				
8/24/2023						32.7	6.21	8.26	6.44
1/31/2024	2.35	3.52	3.98	2.14	3.23		6.51		
2/1/2024								8.32	7
2/3/2024									
2/5/2024						65.3			
8/27/2024	2.16	3.49	3.88	2.17	2.28				6.53
8/28/2024						71.7	6.21	7.81	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	3.7		
9/8/2016		7.2	
11/15/2016			
11/16/2016			
11/17/2016	4.05 (D)	7.8 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	3.6	7.1	
2/23/2017			2.1
4/17/2017			1.8
5/15/2017			1.8
6/12/2017			
6/13/2017			
6/14/2017		7.3	
6/15/2017	3.7		1.9
9/26/2017			
9/27/2017		7.6	
9/28/2017	4.1		1.9
2/13/2018			
2/15/2018	5.3	7.2	2.3
6/26/2018			
6/27/2018	4.2	7.1	
6/28/2018			2.1 (J-X)
12/18/2018		7.1	
12/19/2018	4.9 (J-X)		1.9 (J-X)
12/20/2018			
3/19/2019	5		
3/20/2019		6.9	2.3
10/15/2019			
10/16/2019		7.3	2.3
12/3/2019	4.8		
3/3/2020	3.8		
3/5/2020		6.4	1.8
9/15/2020			
9/16/2020	4.2	6.6	1.8
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		6.4	1.9
3/4/2021	4.6		
9/21/2021			
9/22/2021	4.6	5.6	
9/23/2021			1.9
2/1/2022	4.9	5.9	
2/2/2022			1.8
8/23/2022			1.97
8/24/2022	5	6.17	
1/24/2023	6.31	7.5	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/25/2023			1.92
8/23/2023			1.89
8/24/2023	5.18	13.2	
1/31/2024	5.69		
2/1/2024			2
2/3/2024		15.7	
2/5/2024			
8/27/2024			1.9
8/28/2024	4.95	15.5	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
8/31/2016	0.11 (J)	0.19 (J)	0.07 (J)	0.05 (J)					
9/1/2016					0.06 (J)				
9/7/2016						0.66	0.18 (J)	0.34	0.22 (J)
9/8/2016									
11/15/2016		0.13 (J)			0.06 (J)				
11/16/2016	0.08 (J)		0.07 (J)	0.07 (J)					
11/17/2016								0.14 (J)	0.12 (J)
11/18/2016							0.03 (J)		
11/21/2016						0.9 (D)			
2/20/2017		0.08 (J)	0.06 (J)		0.04 (J)				
2/21/2017	0.14 (J)			0.05 (J)					
2/22/2017								0.09 (J)	0.11 (J)
2/23/2017						0.75	0.07 (J)		
4/17/2017									
5/15/2017									
6/12/2017	0.16 (J)	0.07 (J)	0.008 (J)		0.06 (J)				
6/13/2017				0.04 (J)					
6/14/2017									
6/15/2017						0.77	0.01 (J)	0.03 (J)	0.05 (J)
9/26/2017	0.14 (J)	0.04 (J)	<0.033	<0.033	<0.033				
9/27/2017									
9/28/2017						0.8	<0.033	<0.033	0.05 (J)
2/13/2018	<0.033	<0.033	<0.033	<0.033	<0.033				
2/15/2018						0.82	<0.033	<0.033	<0.033
6/26/2018	0.085 (J)	0.072 (J)	0.045 (J)	0.048 (J)	0.041 (J)				
6/27/2018								0.22 (J)	0.093 (J)
6/28/2018						1.5 (J+X)	0.51 (J+X)		
12/18/2018	0.085 (J)	<0.033	<0.033	<0.033	<0.033				
12/19/2018							<0.033	0.11 (J)	0.16 (J)
12/20/2018						0.68			
3/19/2019	0.0655 (JD)	0.06 (J)	<0.033	0.037 (J)	0.03 (J)		<0.033		0.1 (J)
3/20/2019						0.95		0.088 (J)	
8/27/2019	<0.033	<0.033	<0.033	<0.033	<0.033				
8/28/2019							<0.033	0.056 (J)	0.085 (J)
8/29/2019						0.9			
10/15/2019	<0.033	0.045 (J)	<0.033	<0.033	<0.033				
10/16/2019						0.61		0.08 (J)	
12/3/2019							0.15 (J)		0.2 (J)
3/3/2020	0.066 (J)	0.057 (J)	<0.033	0.05 (J)	0.09 (J)				0.093 (J)
3/5/2020						0.92	<0.033	0.067 (J)	
8/18/2020	<0.033	<0.033	<0.033	<0.033	<0.033				
8/19/2020						0.95	0.051 (J)	0.06 (J)	0.1
9/15/2020	<0.033	0.051 (J)	<0.033	<0.033	<0.033				
9/16/2020							<0.033	0.062 (J)	0.1
9/17/2020						0.68			
3/1/2021	<0.033				<0.033				
3/2/2021		<0.033	<0.033	<0.033					
3/3/2021							<0.033		
3/4/2021						0.83		0.076 (J)	0.096 (J)
9/21/2021		0.056 (J)	<0.033						
9/22/2021	<0.033			<0.033	<0.033		0.054 (J)		0.1
9/23/2021						0.85		0.073 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
2/1/2022	<0.033	<0.033	<0.033	<0.033	<0.033	0.95	<0.033	0.055 (J)	0.079 (J)
2/2/2022									
8/23/2022	<0.033	<0.033	<0.033	<0.033	<0.033	0.609			
8/24/2022							0.194	<0.033	0.274
1/24/2023	<0.033	0.158	0.149	<0.033	0.12			0.239	0.216
1/25/2023						0.708	0.183		
8/23/2023	0.267	0.277	0.289	0.229	0.0787 (J)				
8/24/2023						0.748		0.347	0.484
8/25/2023							0.301		
1/31/2024	<0.033	0.233	0.232	0.184	0.0341 (J)			0.263	0.34
2/1/2024						0.493	0.144		
8/27/2024	0.0342 (J)	0.0516 (J)	0.0365 (J)	0.0426 (J)	0.0334 (J)	0.366			
8/28/2024							0.0861 (J)	0.0609 (J)	0.218

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.19 (J)		
9/8/2016		0.17 (J)	
11/15/2016			
11/16/2016			
11/17/2016	0.12 (J)	0.06 (J)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	0.21 (J)	0.17 (J)	
2/23/2017			0.1 (J)
4/17/2017			0.08 (J)
5/15/2017			0.02 (J)
6/12/2017			
6/13/2017			
6/14/2017	0.18 (J)	0.1 (J)	
6/15/2017			0.03 (J)
9/26/2017			
9/27/2017	0.42	0.4	
9/28/2017			<0.033
2/13/2018			
2/15/2018	0.42	<0.033	<0.033
6/26/2018			
6/27/2018	0.32	0.21 (J)	
6/28/2018			<0.033
12/18/2018	0.28 (J)	0.12 (J)	
12/19/2018			0.094 (J)
12/20/2018			
3/19/2019			
3/20/2019	0.14 (J)	0.074 (J)	0.062 (J)
8/27/2019	0.11 (J)		
8/28/2019	0.11 (J)	0.057 (J)	<0.033
8/29/2019			
10/15/2019			
10/16/2019	0.17 (J)	0.13 (J)	0.059 (J)
12/3/2019			
3/3/2020			
3/5/2020	0.088 (J)	0.072 (J)	0.05 (J)
8/18/2020			
8/19/2020	0.11	0.074 (J)	0.055 (J)
9/15/2020			
9/16/2020	0.085 (J)	0.077 (J)	<0.033
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	0.069 (J)	0.071 (J)	<0.033
3/4/2021			
9/21/2021			
9/22/2021	0.068 (J)	0.1	
9/23/2021			<0.033

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-37S
2/1/2022	0.053 (J)	0.06 (J)	
2/2/2022			<0.033
8/23/2022	0.187		0.105
8/24/2022		0.14	
1/24/2023	0.193	0.122	
1/25/2023			0.114
8/23/2023	0.123		0.0445 (J)
8/24/2023		0.0816 (J)	
8/25/2023			
1/31/2024			
2/1/2024	0.194	0.101	0.109
8/27/2024			0.0777 (J)
8/28/2024	0.204	0.11	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S
8/31/2016	7.16	6.59	6.53	6.2					
9/1/2016					6.49				
9/7/2016						6.36	4.92	6.1	5.59
9/8/2016									
9/23/2016									
11/15/2016		6.67			6.59				
11/16/2016	6.96		6.4	6.12					
11/17/2016						6.28	4.82	6.04	
11/18/2016									5.51
11/21/2016									
2/20/2017		6.65	6.44		6.61				
2/21/2017	7.15			6.24					
2/22/2017						6.4	4.86	6.08	
2/23/2017									5.65
6/12/2017	7.31	6.64	6.4						
6/13/2017				6.19					
6/14/2017							4.86		
9/26/2017	7.02	6.58	6.31	6.15	6.47				
9/27/2017							4.78		
9/28/2017						6.35		6.03	5.62
2/13/2018	7.44	6.72	6.62	6.18	6.54				
2/15/2018						6.35	4.84	6.02	5.66
6/26/2018	6.93	6.43	6.29	6.05	6.23				
6/27/2018						6.35	4.73	6.01	
6/28/2018									5.57
12/18/2018	6.76	6.7	6.57	5.92	6.71		4.84		
12/19/2018						6.56		6.22	5.76
12/20/2018									
3/19/2019	6.87	6.63	6.45	6.18	6.18	6.43			5.72
3/20/2019							4.77	6.06	
8/27/2019	6.79	6.49	6.37	6.09	6.35		4.78		
8/28/2019						6.25	5.52	5.95	5.52
8/29/2019									
10/15/2019	6.57	7.01	6.77	6.06	6.36				
10/16/2019							4.78	6.03	
10/17/2019						6.3			5.61
3/3/2020	6.71	6.49	6.29	6.1	6.59	6.34			
3/5/2020							4.82	6.04	5.39
8/18/2020	6.59	6.41	6.29	6.06	6.33				
8/19/2020						6.24	4.78	5.97	5.53
9/15/2020	6.64	6.25	6.27	6.01	6.43				
9/16/2020						6.26	4.78	5.96	5.58
9/17/2020									
3/1/2021	6.66				6.7				
3/2/2021		6.42	6.47	6.2					
3/3/2021							4.83		5.86
3/4/2021						6.45		6.14	
9/21/2021		6.36	6.32						
9/22/2021	6.78			6.06	6.48	6.22	4.81		5.53
9/23/2021								6.08	
2/1/2022	6.83	6.39	6.38	5.95	6.54	6.39	4.82	6.09	5.65
2/2/2022									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S
8/23/2022	6.67	6.36	6.24	5.95	6.51		4.67		
8/24/2022						6.62		6.05	5.59
1/24/2023	6.7	6.47	6.42	5.26	6.54	6.37	4.79	6.08	
1/25/2023									5.64
8/22/2023	6.91	6.09	6.36	5.97	6.27		4.58		
8/23/2023						6.16		5.9	5.26
1/30/2024	6.57	6.38	6.44	6.05	5.75	6.28		5.5	
1/31/2024							4.78		5.63
8/27/2024	6.6	6.65	6.56	6.02	6.8				
8/28/2024						6.49	4.51	5.87	5.8

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-38S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	5.43		
9/8/2016		5.84	
9/23/2016	5.46		
11/15/2016			
11/16/2016			
11/17/2016		5.81	
11/18/2016			
11/21/2016	4.84		
2/20/2017			
2/21/2017			
2/22/2017		5.85	
2/23/2017	4.73		5.57
6/12/2017			
6/13/2017			
6/14/2017		5.87	
9/26/2017			
9/27/2017		5.74	
9/28/2017	4.37		5.76
2/13/2018			
2/15/2018	4.3	5.93	5.95
6/26/2018			
6/27/2018		5.68	
6/28/2018	4.16		5.78
12/18/2018		5.97	
12/19/2018			6.07
12/20/2018	4.21		
3/19/2019			
3/20/2019	4.34	5.84	5.93
8/27/2019			
8/28/2019		5.8	5.8
8/29/2019	4.01		
10/15/2019			
10/16/2019	4.21	5.85	5.81
10/17/2019			
3/3/2020			
3/5/2020	4.01	5.89	5.53
8/18/2020			
8/19/2020	4.12	5.78	5.66
9/15/2020			
9/16/2020		5.81	5.84
9/17/2020	4.17		
3/1/2021			
3/2/2021			
3/3/2021		5.88	5.87
3/4/2021	4.19		
9/21/2021			
9/22/2021		5.93	
9/23/2021	4.05		5.85
2/1/2022	4.06	5.87	
2/2/2022			5.8

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-38S	BRGWC-34S	BRGWC-37S
8/23/2022	3.97		5.82
8/24/2022		5.75	
1/24/2023		5.93	
1/25/2023	4.75		5.84
8/22/2023		5.72	5.42
8/23/2023	3.91		
1/30/2024			
1/31/2024	4.1	5.95	5.76
8/27/2024	4.96		5.82
8/28/2024		6.21	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
8/31/2016	7.5	0.81 (J)	2.7	0.38 (J)					
9/1/2016					0.6 (J)				
9/7/2016						260	260	300	440
9/8/2016									
11/15/2016		<1 (J)			0.68 (J)				
11/16/2016	6.6		3.4	<1 (J)					
11/17/2016						235 (D)	285 (D)		
11/18/2016								245 (D)	
11/21/2016									490 (D)
2/20/2017		1 (B-01)	3.9 (B-01)		0.98 (J)				
2/21/2017	6.1			1.5					
2/22/2017						210	270		
2/23/2017								330	470
4/17/2017									
5/15/2017									
6/12/2017	5	0.94 (J)	3.7		0.54 (J)				
6/13/2017				0.67 (J)					
6/14/2017						200			
6/15/2017							280	310	490
9/26/2017	5.4	0.92 (J)	4.1	0.62 (J)	0.53 (J)				
9/27/2017						200			
9/28/2017							240	290	470
2/13/2018	4.7 (J)	<1	6.6	<1	<1				
2/15/2018						197	266	292	432
6/26/2018	6.2	0.91 (J)	3.5	0.69 (J)	0.54 (J)				
6/27/2018						200	278		
6/28/2018								284	453
12/18/2018	5.9	0.68 (J)	4.3	0.72 (J)	0.39 (J)	222			
12/19/2018							287	319	
12/20/2018									463
3/19/2019	6 (D)	0.74 (J)	3	0.78 (J)	0.68 (J)			307	
3/20/2019						204	268		405
10/15/2019	5.2	0.68 (J)	3.8	0.47 (J)	0.48 (J)				
10/16/2019						226	277		432
12/3/2019								256	
3/3/2020	7.1	0.71 (J)	2.8	0.93 (J)	2.5				
3/5/2020						173	269	262	370
9/15/2020	5.9	<1	1.7	<1	<1				
9/16/2020						154	270	256	
9/17/2020									356
3/1/2021	4.7				0.74 (J)				
3/2/2021		<1	2.2	<1					
3/3/2021						133		252	
3/4/2021							251		325
9/21/2021		<1	2.3						
9/22/2021	5.2			<1	<1	94.6		234	
9/23/2021							258		318
2/1/2022	5.4	<1	2	<1	<1	99.7	256	195	287
2/2/2022									
8/23/2022	5.66	0.521	2.21	0.452	0.479	385			389
8/24/2022							279	224	
1/24/2023	3.58	0.66	3.34	0.465	0.484	375	334		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-38S
1/25/2023								237	291
8/23/2023	6.85	0.54	1.83	0.526	0.467				
8/24/2023						466			
8/25/2023							269	223	274
1/31/2024	2.65	0.617	2.74	0.423	0.456				
2/1/2024							278		
2/3/2024								222	233
2/5/2024						872			
8/27/2024	2.58	0.652	2.67	0.444	0.465				233
8/28/2024						1230	251	201	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	97		
9/8/2016		420	
11/15/2016			
11/16/2016			
11/17/2016	120 (D)	445 (D)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	120	410	
2/23/2017			0.55 (J)
4/17/2017			0.44 (J)
5/15/2017			0.45 (J)
6/12/2017			
6/13/2017			
6/14/2017		410	
6/15/2017	130		0.46 (J)
9/26/2017			
9/27/2017		360	
9/28/2017	120		0.49 (J)
2/13/2018			
2/15/2018	109	335	1.9 (o)
6/26/2018			
6/27/2018	118	296	
6/28/2018			0.24 (J)
12/18/2018		345	
12/19/2018	125		0.4 (J)
12/20/2018			
3/19/2019	126		
3/20/2019		329	<1 (X)
10/15/2019			
10/16/2019		325	0.29 (J)
12/3/2019	180		
3/3/2020	95.4		
3/5/2020		287	<1
9/15/2020			
9/16/2020	151	283	<1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		277	<1
3/4/2021	122		
9/21/2021			
9/22/2021	123	232	
9/23/2021			<1
2/1/2022	139	243	
2/2/2022			<1
8/23/2022			0.307 (J)
8/24/2022	157	268	
1/24/2023	153	267	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/25/2023			0.325 (J)
8/23/2023			0.355 (J)
8/24/2023		299	
8/25/2023	180		
1/31/2024			
2/1/2024	189		0.258 (J)
2/3/2024		289	
2/5/2024			
8/27/2024			0.279 (J)
8/28/2024	188	308	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
8/31/2016	151	154	138	88					
9/1/2016									
9/7/2016					750	528	486	331	382
9/8/2016									
11/15/2016		123							
11/16/2016	69		77	41					
11/17/2016							453	308	382
11/18/2016						524			
11/21/2016					795				
2/20/2017		158	170						
2/21/2017	68			<10					
2/22/2017							541	341	387
2/23/2017					733	517			
4/17/2017									
5/15/2017									
6/12/2017	161	142	132						
6/13/2017				53					
6/14/2017									316
6/15/2017					812	566	548	333	
9/26/2017	167	138	108	45					
9/27/2017									303
9/28/2017					690	475	487	310	
2/13/2018	165	150	141	63					
2/15/2018					722	513	500	292	332
6/26/2018	188	154	133	71					
6/27/2018							347 (X)	353 (X)	538 (X)
6/28/2018					704	499			
12/18/2018	145 (X)	147	138 (X)	78 (X)					358
12/19/2018						521	489	317	
12/20/2018					642				
3/19/2019	146.5 (D)	146	130	68		498		303	
3/20/2019					615		501		338
10/15/2019	140	144	175	66					
10/16/2019					630		481		281
12/3/2019						498		378	
3/3/2020	155	130	<10	41				263	
3/5/2020					608	457	535		292
9/15/2020	116	116	100	69					
9/16/2020						463	474	316	88
9/17/2020					587				
3/1/2021	98								
3/2/2021		96	80	43					
3/3/2021						442			212
3/4/2021					540		480	316	
9/21/2021		104	108						
9/22/2021	129			66		457		323	190
9/23/2021					528		511		
2/1/2022	126	124	129	72	560	441	521	354	209
2/2/2022									
8/23/2022	117	101	107	45	568				614
8/24/2022						418	507	370	
1/24/2023	93	104	124	63			507	344	615

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
1/25/2023					484	418			
8/25/2023		73		36					778
8/28/2023	81		80					391	
8/29/2023					459	398	485		
2/6/2024	98	113	118	54			502	413	
2/7/2024					393	435			1420
8/27/2024	82	101	107	51	370				
8/28/2024						389	479	421	1880

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
8/31/2016			
9/1/2016		299 (o)	
9/7/2016			
9/8/2016	663		
11/15/2016		41	
11/16/2016			
11/17/2016	651		
11/18/2016			
11/21/2016			
2/20/2017		133	
2/21/2017			
2/22/2017	706		
2/23/2017			45
4/17/2017			53
5/15/2017			48
6/12/2017		61	
6/13/2017			
6/14/2017	643		
6/15/2017			63
9/26/2017		29	
9/27/2017	579		
9/28/2017			39
2/13/2018		61	
2/15/2018	612		54
6/26/2018		71	
6/27/2018	359 (X)		
6/28/2018			59 (X)
12/18/2018	535	70 (X)	
12/19/2018			68
12/20/2018			
3/19/2019		72	
3/20/2019	517		68 (X)
10/15/2019		63	
10/16/2019	473		49
12/3/2019			
3/3/2020		54	
3/5/2020	489		39
9/15/2020		79	
9/16/2020	392		31
9/17/2020			
3/1/2021		39	
3/2/2021			
3/3/2021	422		33
3/4/2021			
9/21/2021			
9/22/2021	406	62	
9/23/2021			49
2/1/2022	449	61	
2/2/2022			46
8/23/2022		52	40
8/24/2022	452		
1/24/2023	433	64	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2024 5:05 PM View: Pond E - Appendix III

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
1/25/2023			28
8/25/2023	495		42
8/28/2023		30	
8/29/2023			
2/6/2024		45	
2/7/2024	494		37
8/27/2024		57	40
8/28/2024	562		

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**BRGWC-35S**	**0.1444**	**156**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02442**	**99**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-38S**	**-0.05273**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1911**	**100**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1244**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.196**	**133**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-36S**	**-1.058**	**-91**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-38S**	**-2.243**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1245**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06359**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-17S**	**0.1933**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-36S**	**0.5972**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.06454**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03038**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.0462**	**-104**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-33S**	**-0.01467**	**-99**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-38S**	**-0.07783**	**-103**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-17S**	**8.754**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-34S**	**-20.03**	**-119**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-36S**	**-12.8**	**-127**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-33.12**	**-152**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-115**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-17.68**	**-155**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-47.43**	**-166**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0002903	43	81	No	20	35	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-10	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-9	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-8	-81	No	20	55	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-5	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0.001185	27	87	No	21	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0	-6	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	-0.01887	-25	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1444**	**156**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02442**	**99**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-38S**	**-0.05273**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.1344	17	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1911**	**100**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.1912	52	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5187	-75	-81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1244**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.196**	**133**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	5.553	30	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-2.205	-72	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	1.309	69	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-36S**	**-1.058**	**-91**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-38S**	**-2.243**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.01185	-18	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.02985	28	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1245**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06359**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	0	-14	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.1933**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-33S	3.032	76	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-34S	-0.09482	-16	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.05688	65	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.5972**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1582	53	81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	-0.008919	-82	-92	No	22	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.003672	76	92	No	22	54.55	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.005929	90	92	No	22	59.09	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	0	18	92	No	22	31.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0	29	92	No	22	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	-0.02414	-40	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.06454**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03038**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-5I (bg)	-0.008211	-26	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.0462**	**-104**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWA-6S (bg)	-0.005567	-8	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-33S**	**-0.01467**	**-99**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	BRGWC-36S	0.004314	11	87	No	21	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	BRGWC-37S	-0.004345	-7	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (S.U.)	**BRGWC-38S**	**-0.07783**	**-103**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2I (bg)	-0.308	-72	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2S (bg)	-0.02433	-35	-81	No	20	30	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.2157	-74	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03749	-68	-81	No	20	30	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01207	-42	-81	No	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**8.754**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-33S	7.446	17	81	No	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

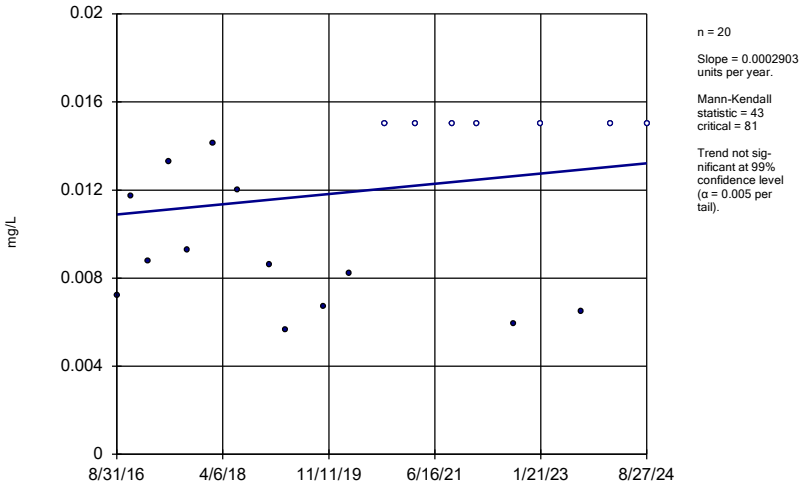
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**BRGWC-34S**	**-20.03**	**-119**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	-0.3349	-12	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-12.8**	**-127**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-33.12**	**-152**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-2I (bg)	-9.102	-75	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-2S (bg)	-0.8471	-12	-81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWA-5I (bg)	-3.51	-54	-81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-115**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	BRGWA-6S (bg)	-1.988	-30	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-17S	9.313	81	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-33S	29.74	23	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-34S	-28.14	-76	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BRGWC-35S	0.1023	1	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-17.68**	**-155**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-47.43**	**-166**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0.0002903 units per year.

Mann-Kendall statistic = 43
critical = 81

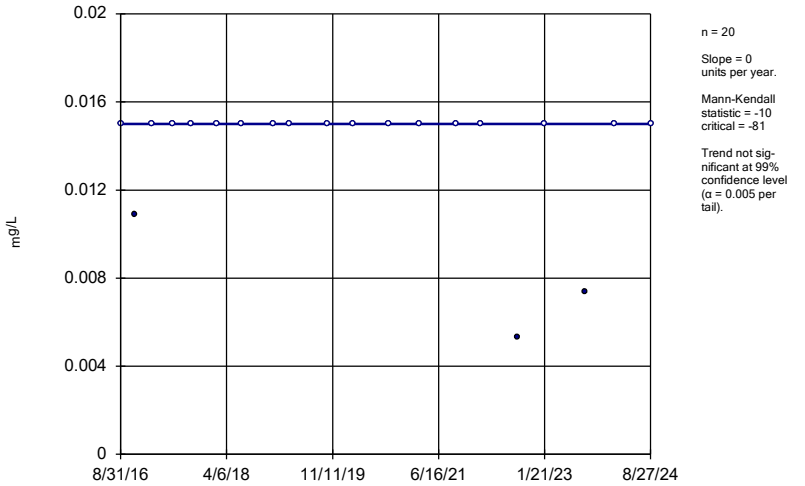
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -81

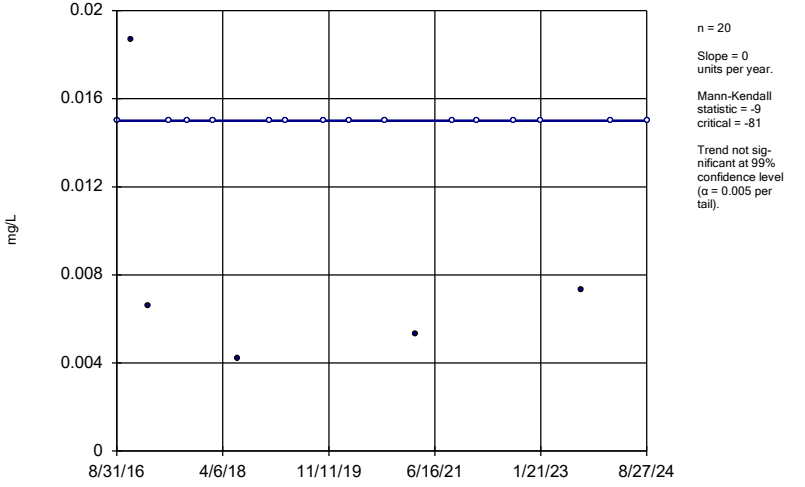
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -81

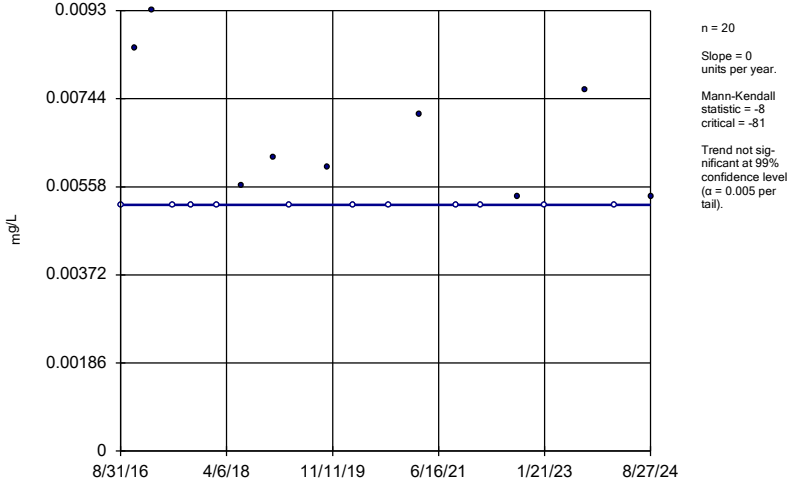
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -81

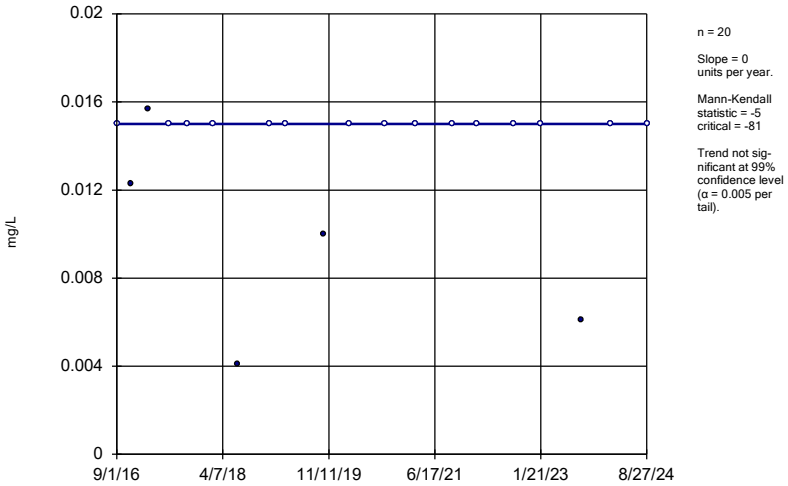
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -81

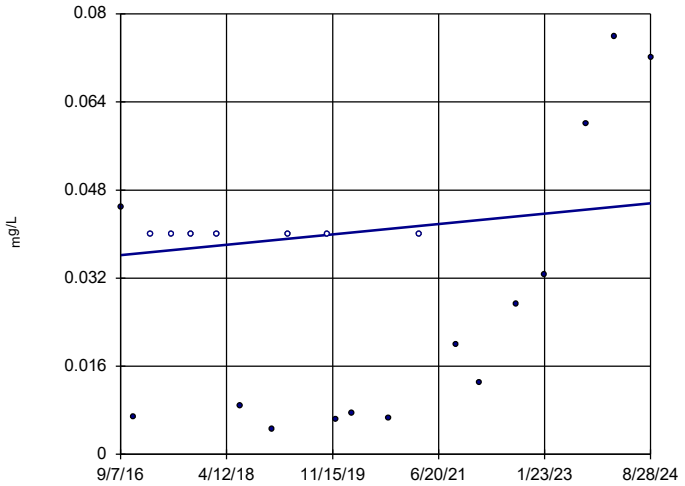
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-17S



n = 21

Slope = 0.001185 units per year.

Mann-Kendall statistic = 27
critical = 87

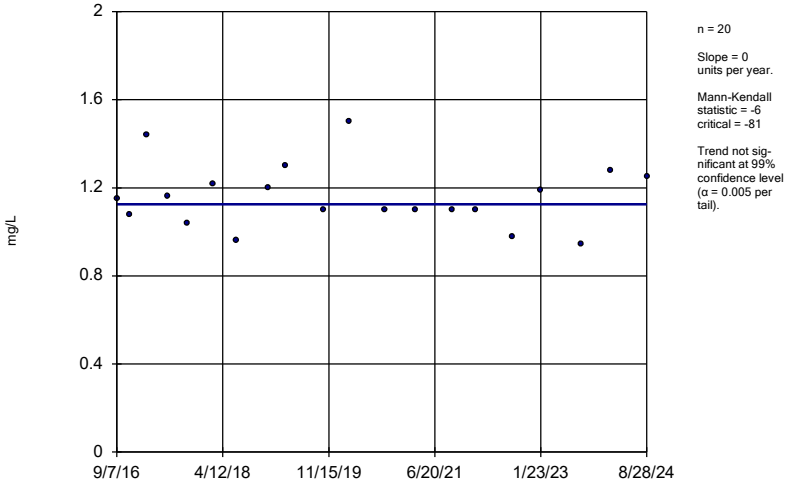
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -81

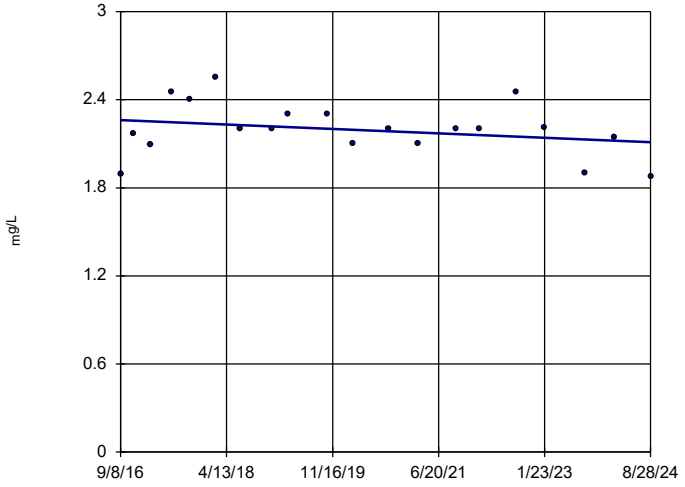
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 20

Slope = -0.01887 units per year.

Mann-Kendall statistic = -25
critical = -81

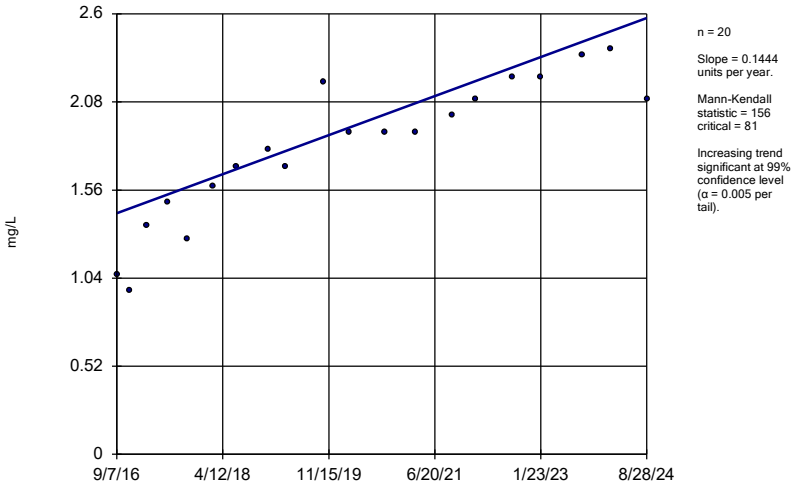
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 20

Slope = 0.1444 units per year.

Mann-Kendall statistic = 156 critical = 81

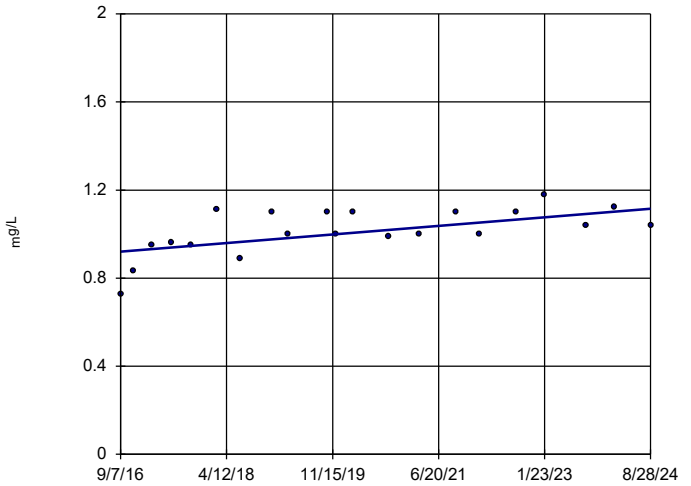
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:26 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 21

Slope = 0.02442 units per year.

Mann-Kendall statistic = 99 critical = 87

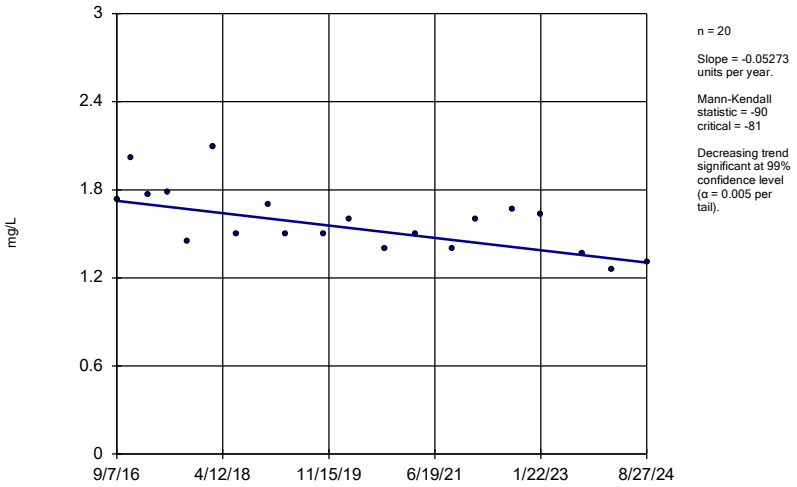
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = -0.05273 units per year.

Mann-Kendall statistic = -90 critical = -81

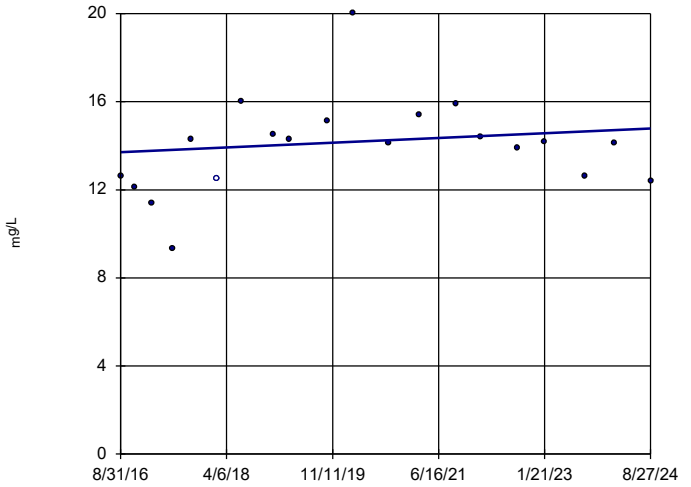
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = 0.1344 units per year.

Mann-Kendall statistic = 17 critical = 81

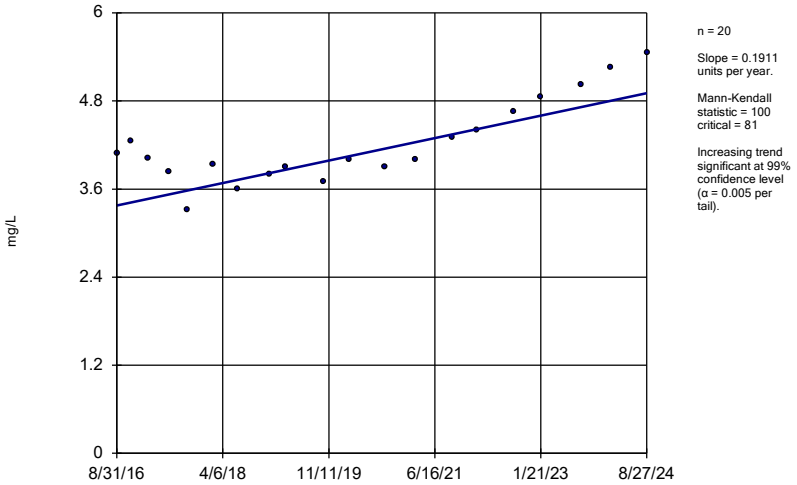
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0.1911 units per year.

Mann-Kendall statistic = 100 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests

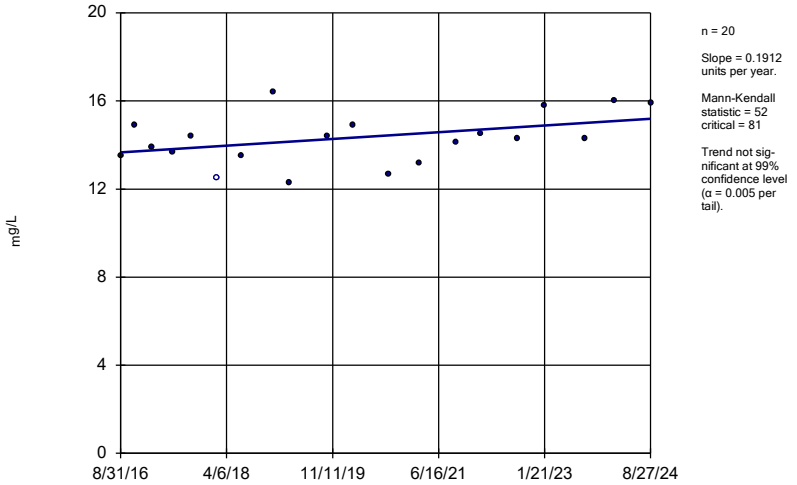
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = 0.1912 units per year.

Mann-Kendall statistic = 52 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests

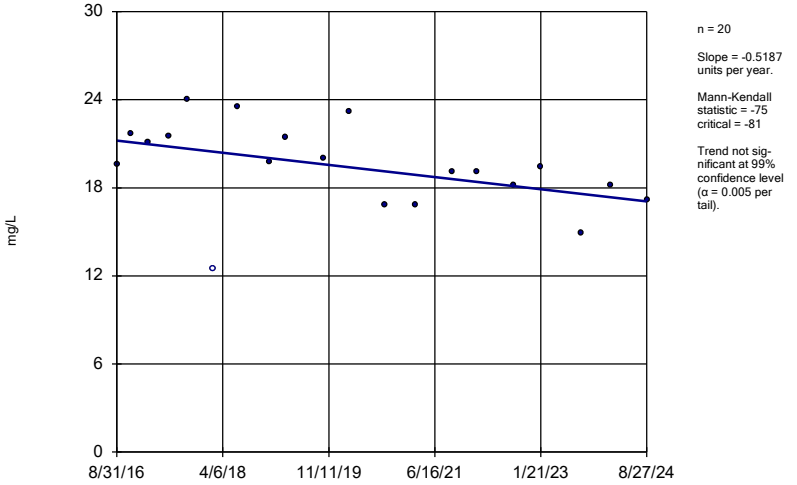
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.5187 units per year.

Mann-Kendall statistic = -75 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

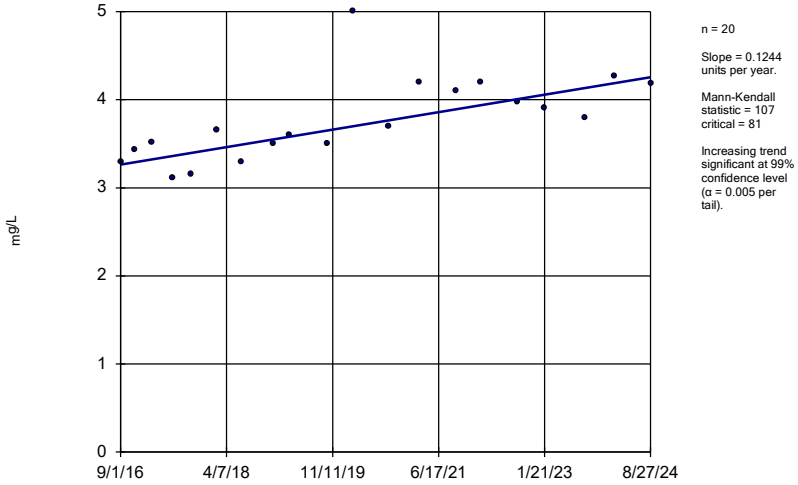
Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0.1244 units per year.

Mann-Kendall statistic = 107 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

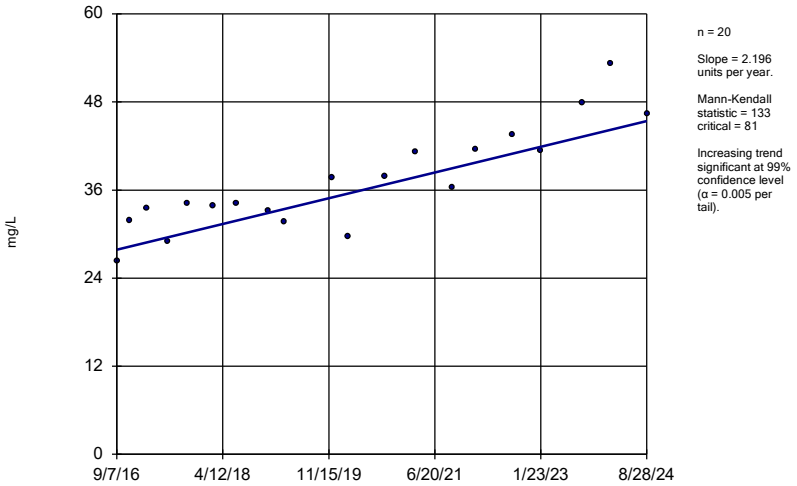
Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 20

Slope = 2.196 units per year.

Mann-Kendall statistic = 133
critical = 81

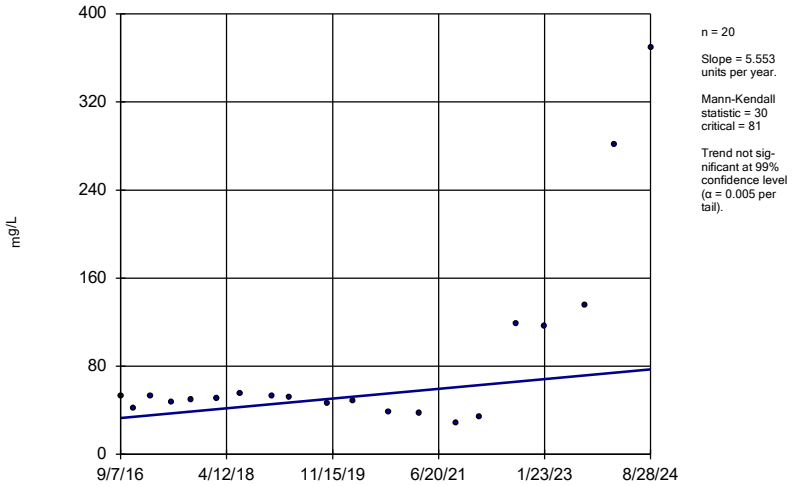
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 20

Slope = 5.553 units per year.

Mann-Kendall statistic = 30
critical = 81

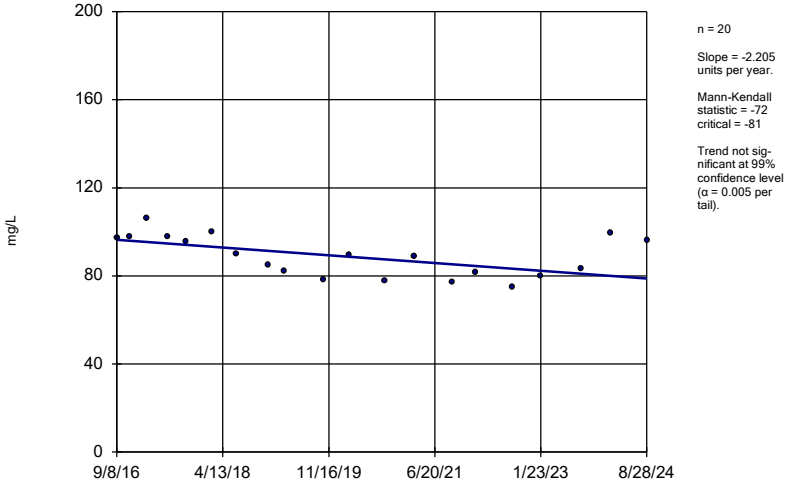
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 20

Slope = -2.205 units per year.

Mann-Kendall statistic = -72
critical = -81

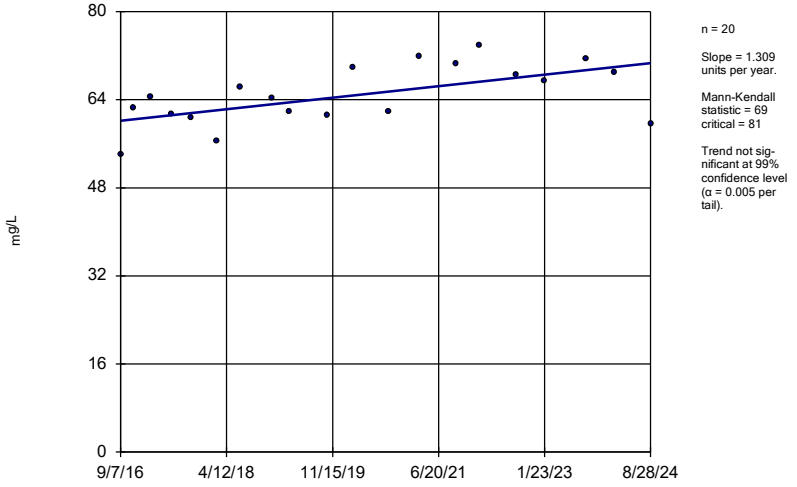
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 20

Slope = 1.309 units per year.

Mann-Kendall statistic = 69
critical = 81

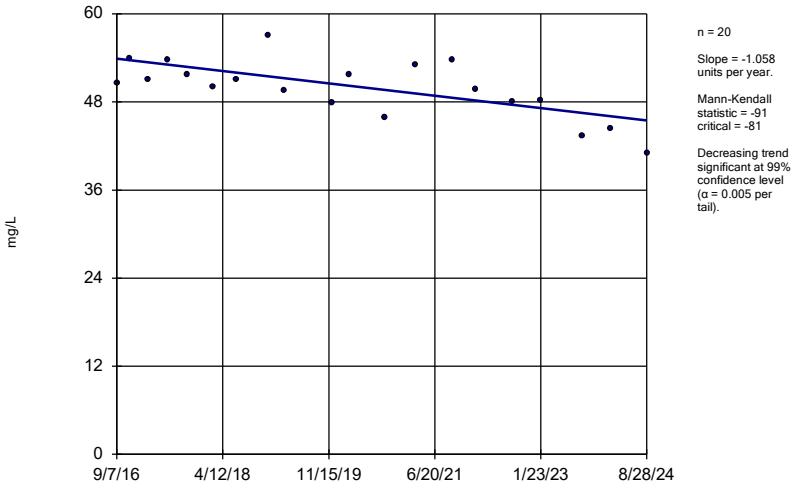
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 20

Slope = -1.058 units per year.

Mann-Kendall statistic = -91
critical = -81

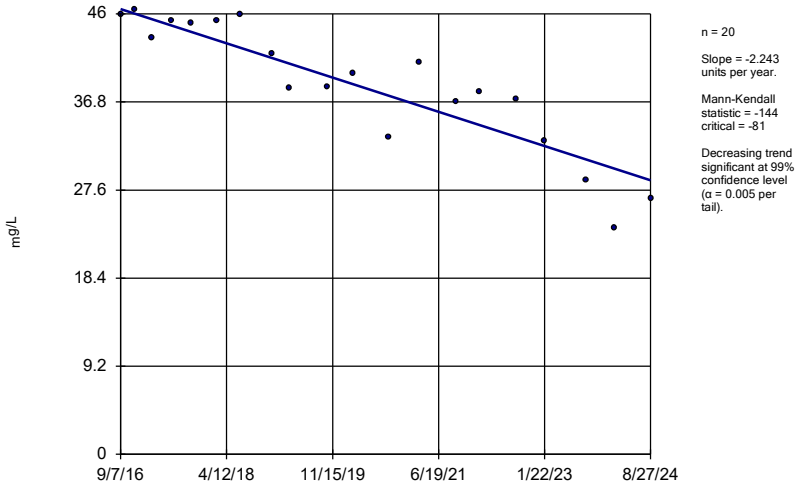
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = -2.243 units per year.

Mann-Kendall statistic = -144
critical = -81

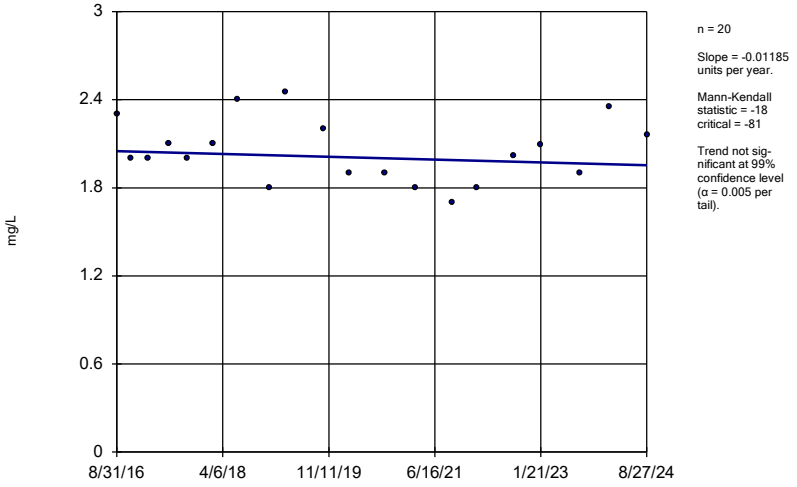
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -0.01185 units per year.

Mann-Kendall statistic = -18
critical = -81

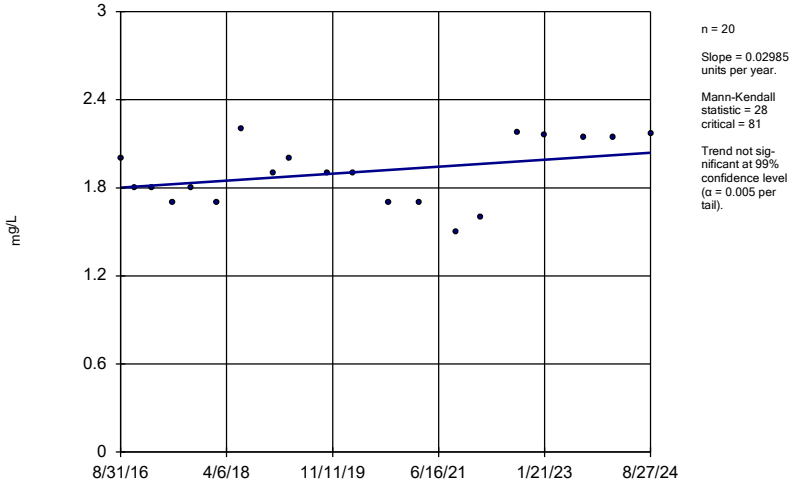
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = 0.02985 units per year.

Mann-Kendall statistic = 28
critical = 81

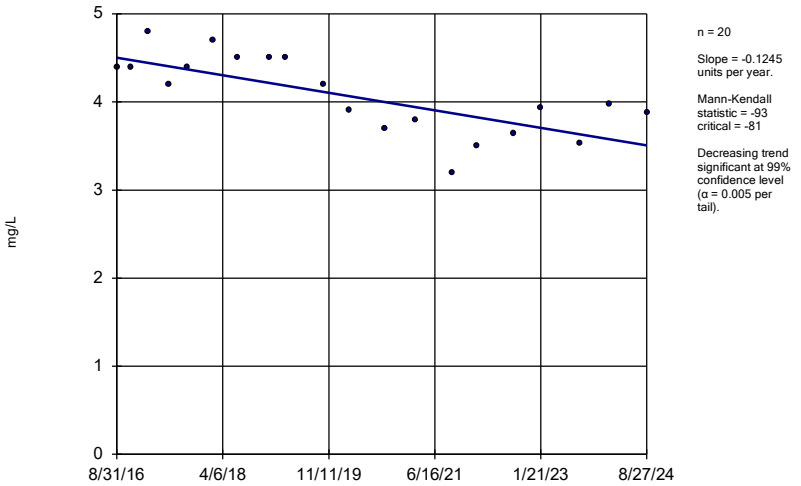
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -0.1245 units per year.

Mann-Kendall statistic = -93 critical = -81

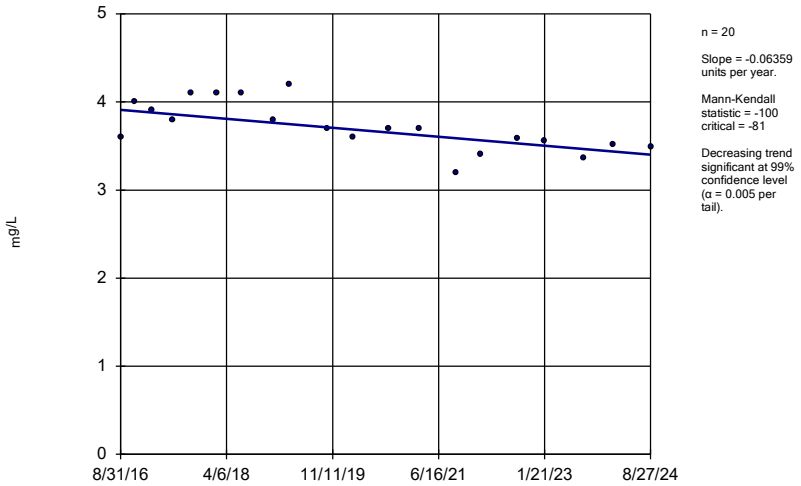
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.06359 units per year.

Mann-Kendall statistic = -100 critical = -81

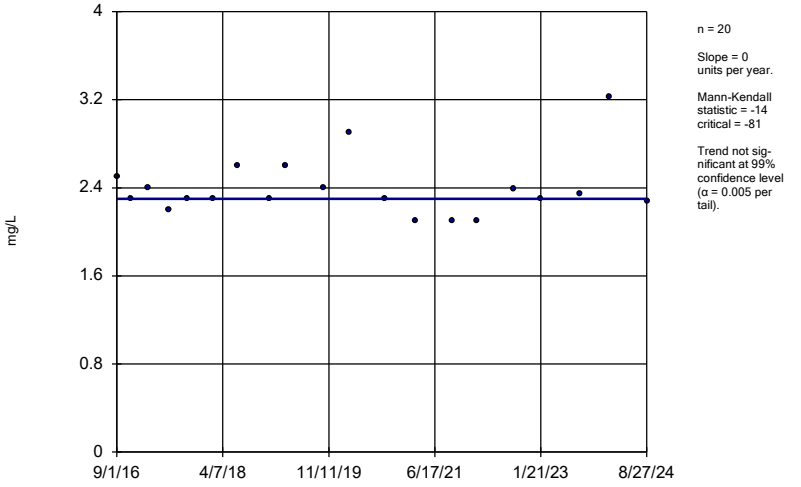
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -14 critical = -81

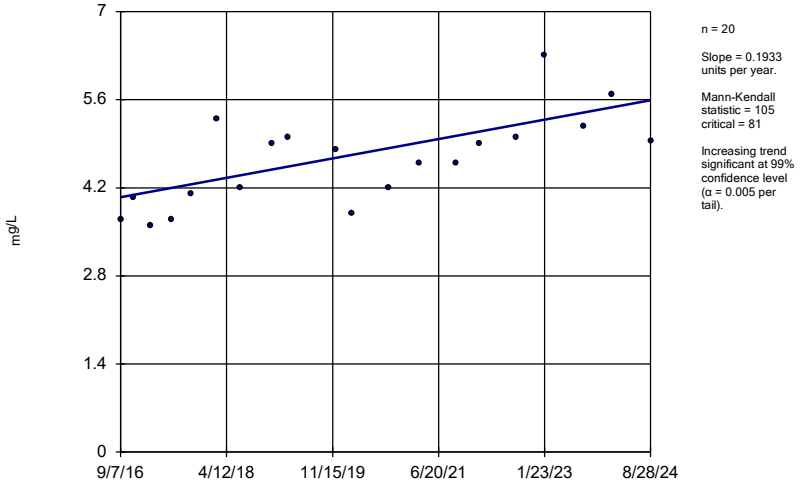
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 20

Slope = 0.1933 units per year.

Mann-Kendall statistic = 105 critical = 81

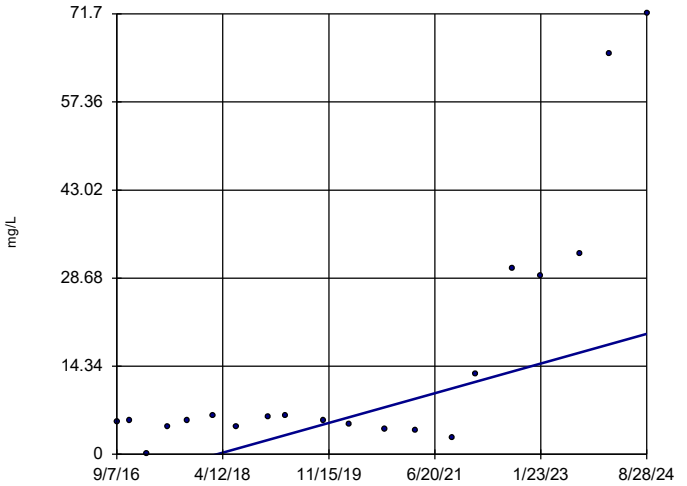
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 20

Slope = 3.032 units per year.

Mann-Kendall statistic = 76 critical = 81

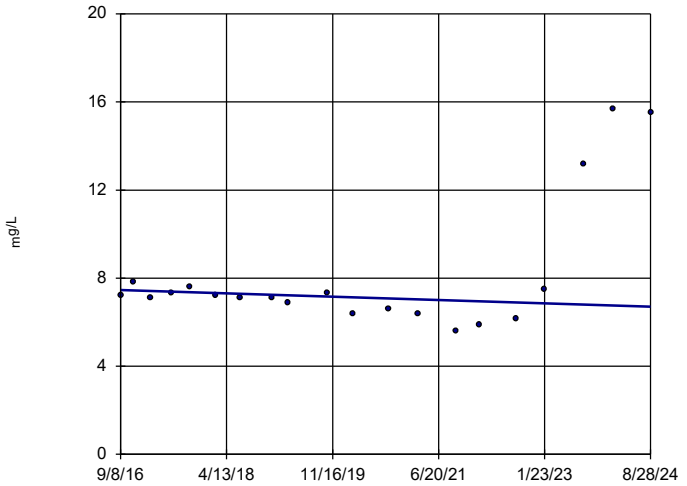
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 20

Slope = -0.09482 units per year.

Mann-Kendall statistic = -16 critical = -81

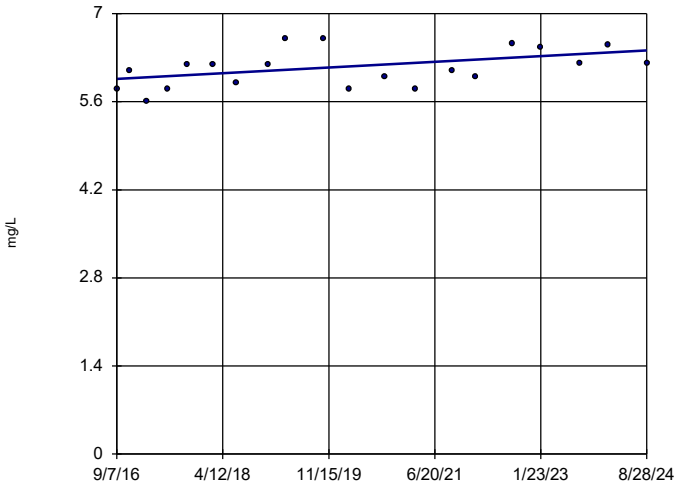
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 20

Slope = 0.05688 units per year.

Mann-Kendall statistic = 65 critical = 81

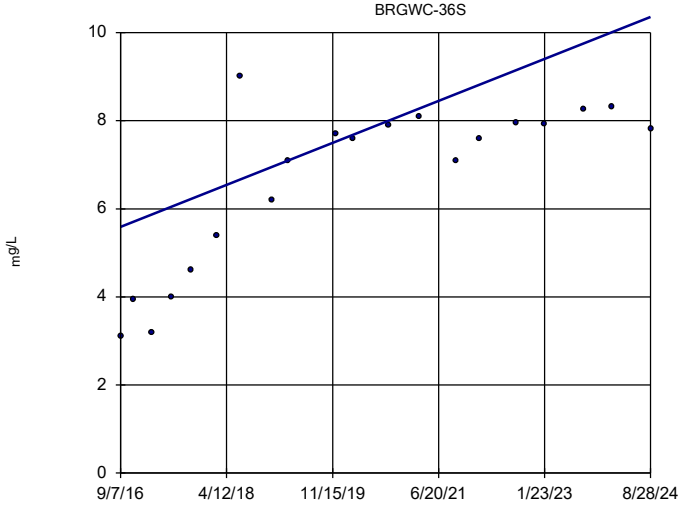
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:27 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 20

Slope = 0.5972 units per year.

Mann-Kendall statistic = 126 critical = 81

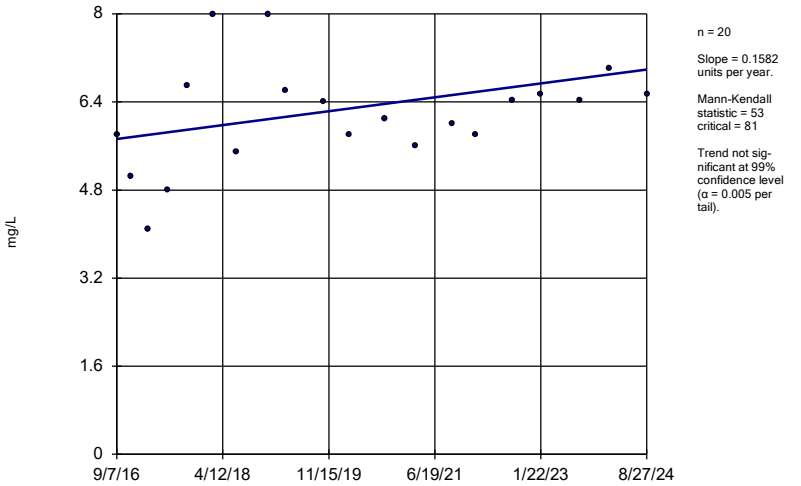
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = 0.1582 units per year.

Mann-Kendall statistic = 53
critical = 81

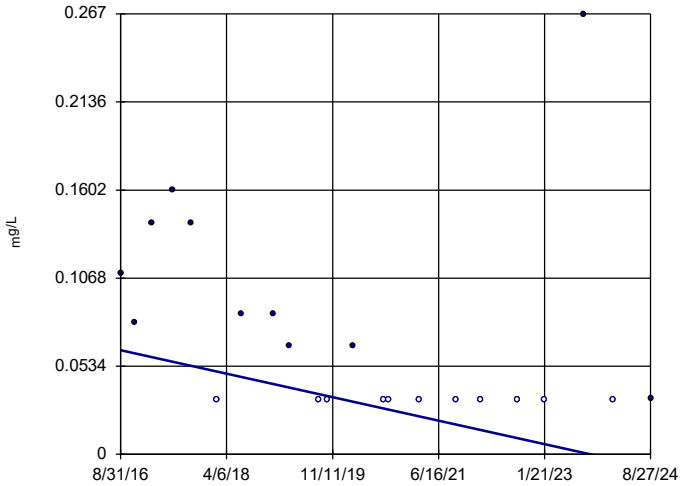
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 22

Slope = -0.008919 units per year.

Mann-Kendall statistic = -82
critical = -92

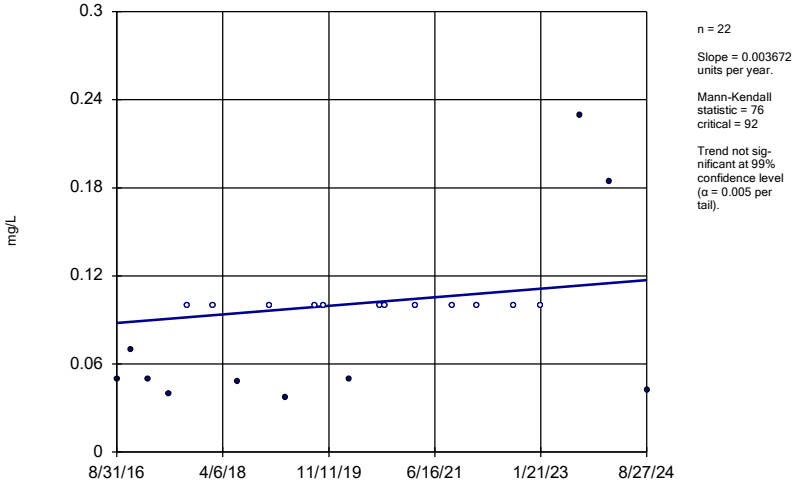
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 22

Slope = 0.003672 units per year.

Mann-Kendall statistic = 76
critical = 92

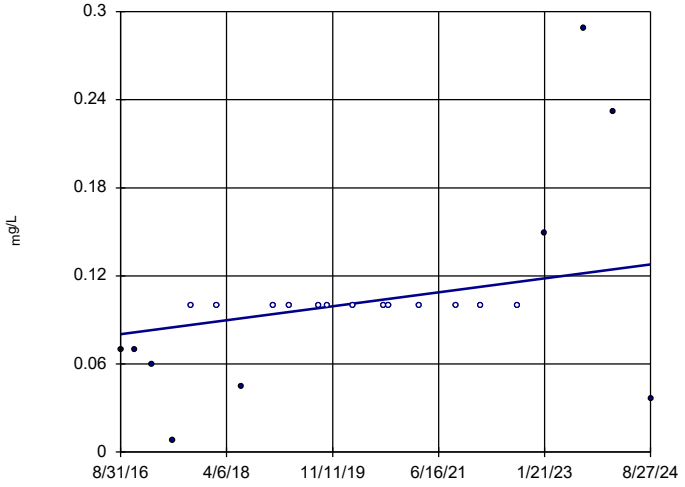
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 22

Slope = 0.005929 units per year.

Mann-Kendall statistic = 90
critical = 92

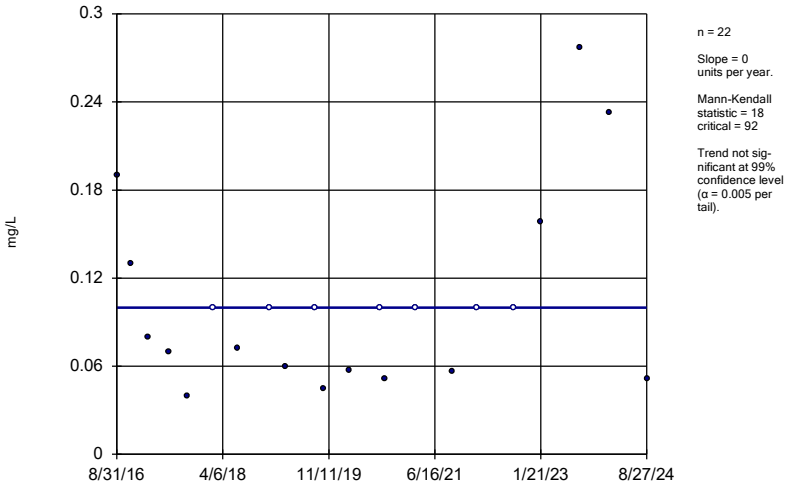
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 18
critical = 92

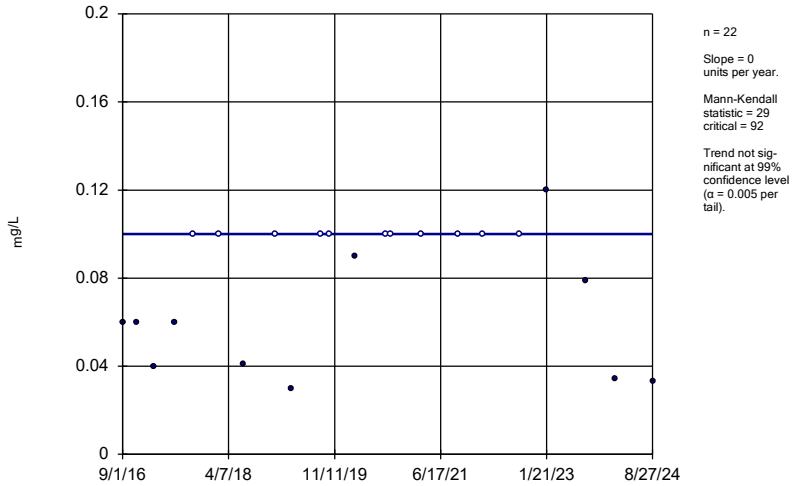
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 29
critical = 92

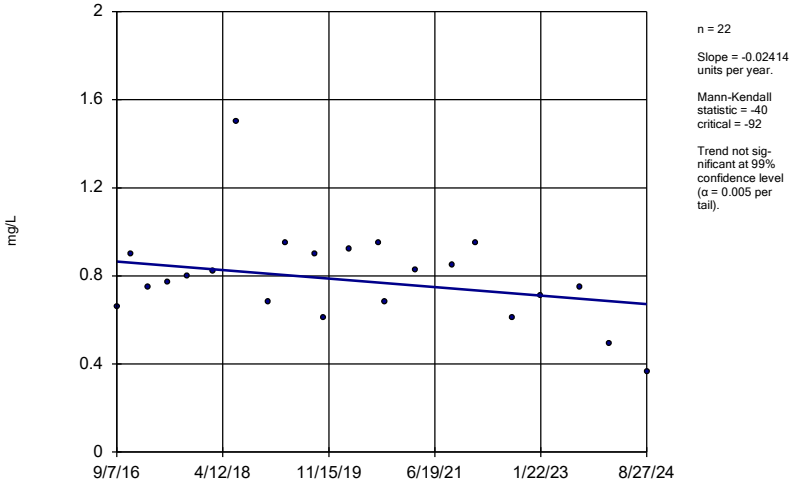
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 22

Slope = -0.02414 units per year.

Mann-Kendall statistic = -40
critical = -92

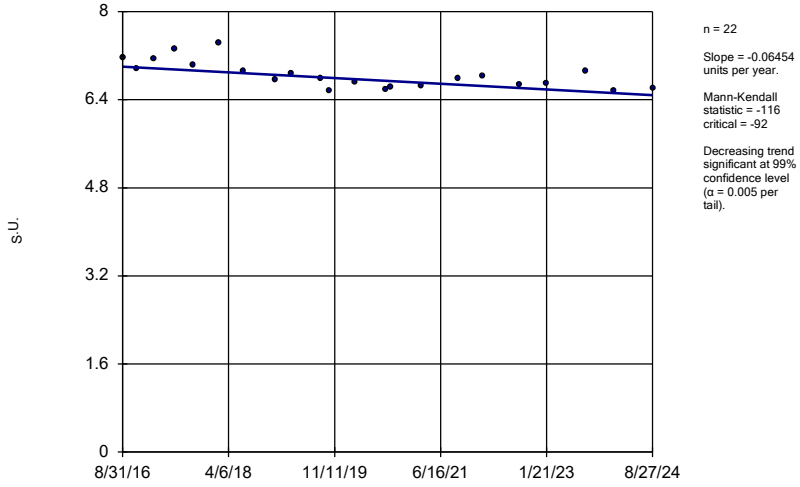
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 22

Slope = -0.06454 units per year.

Mann-Kendall statistic = -116
critical = -92

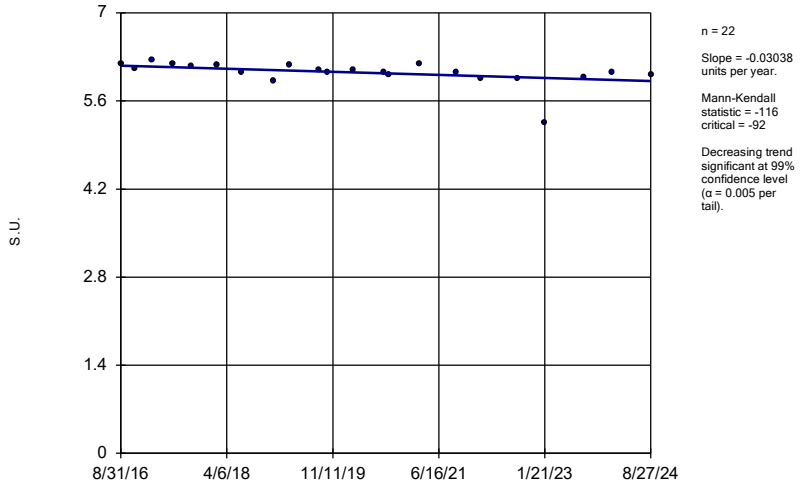
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 22

Slope = -0.03038 units per year.

Mann-Kendall statistic = -116
critical = -92

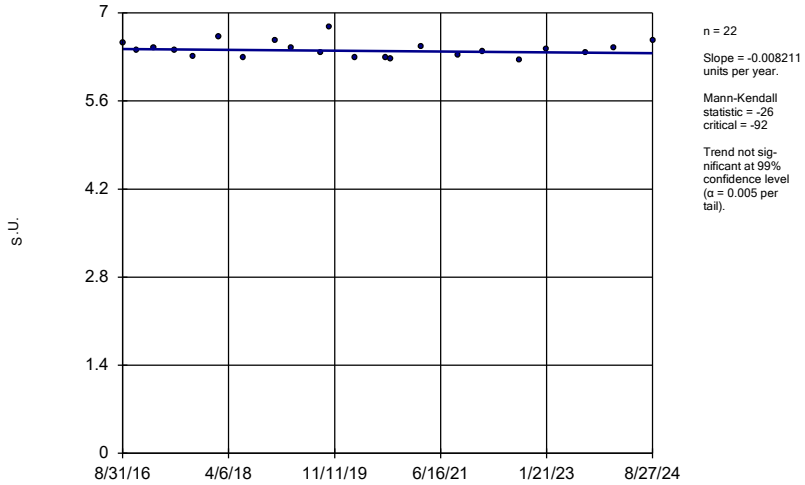
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 22

Slope = -0.008211 units per year.

Mann-Kendall statistic = -26
critical = -92

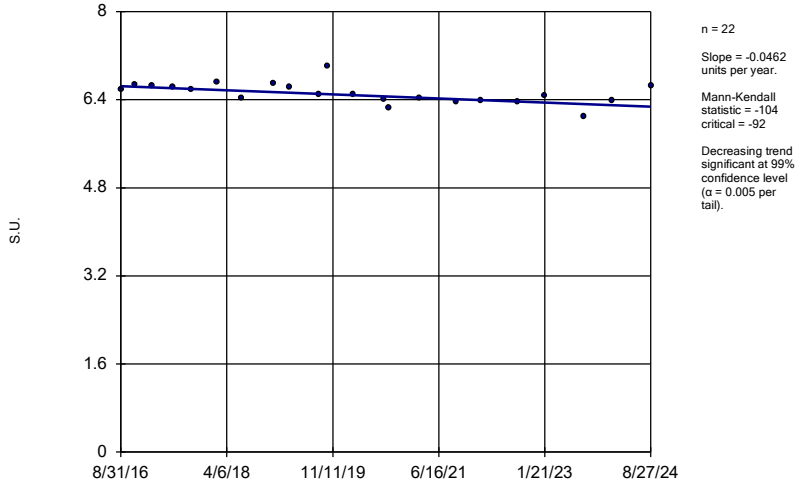
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 22

Slope = -0.0462 units per year.

Mann-Kendall statistic = -104
critical = -92

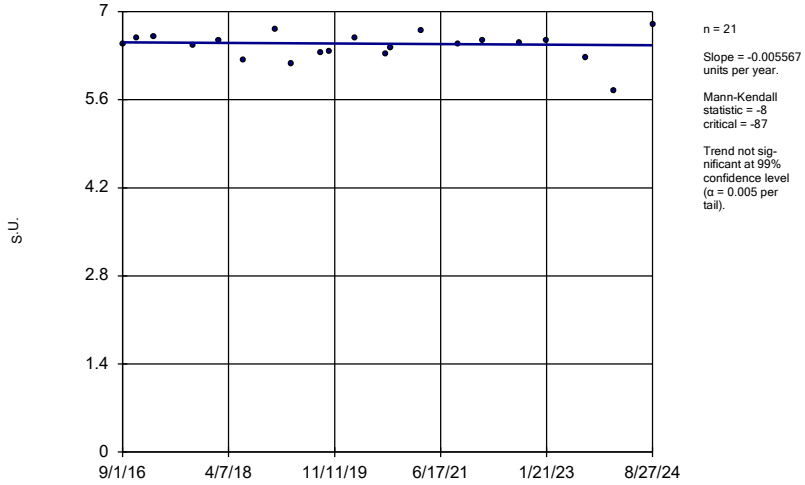
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = -0.005567 units per year.

Mann-Kendall statistic = -8
critical = -87

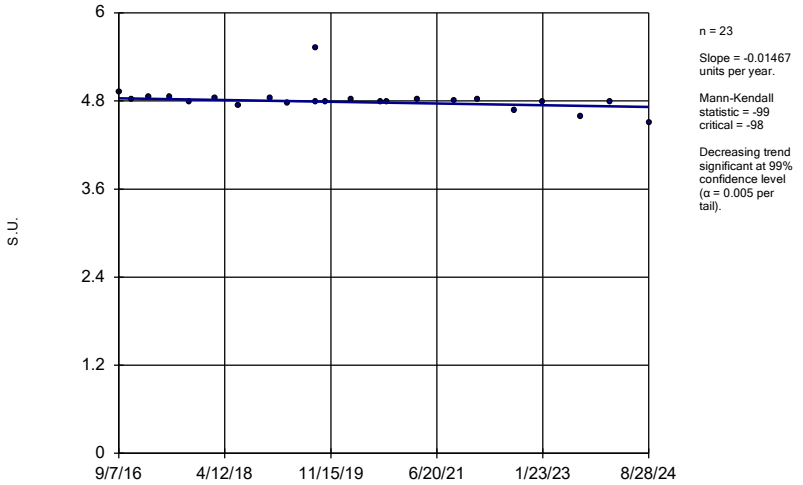
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 23

Slope = -0.01467 units per year.

Mann-Kendall statistic = -99
critical = -98

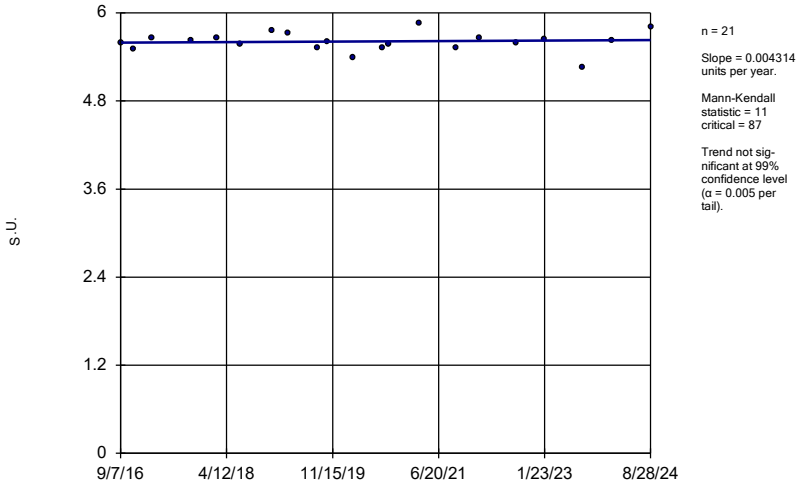
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 21

Slope = 0.004314 units per year.

Mann-Kendall statistic = 11
critical = 87

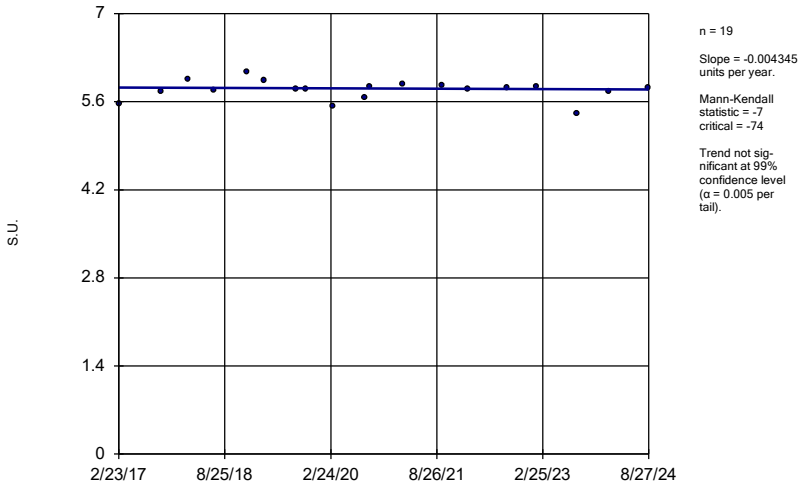
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-37S



n = 19

Slope = -0.004345 units per year.

Mann-Kendall statistic = -7
critical = -74

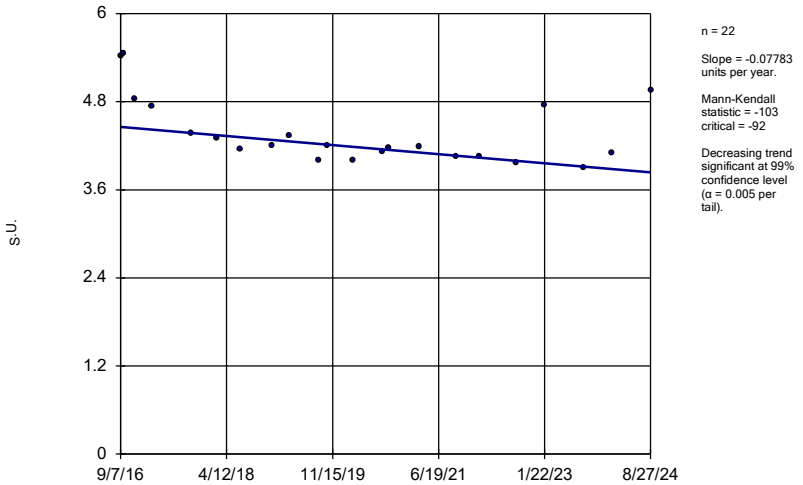
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 22

Slope = -0.07783 units per year.

Mann-Kendall statistic = -103
critical = -92

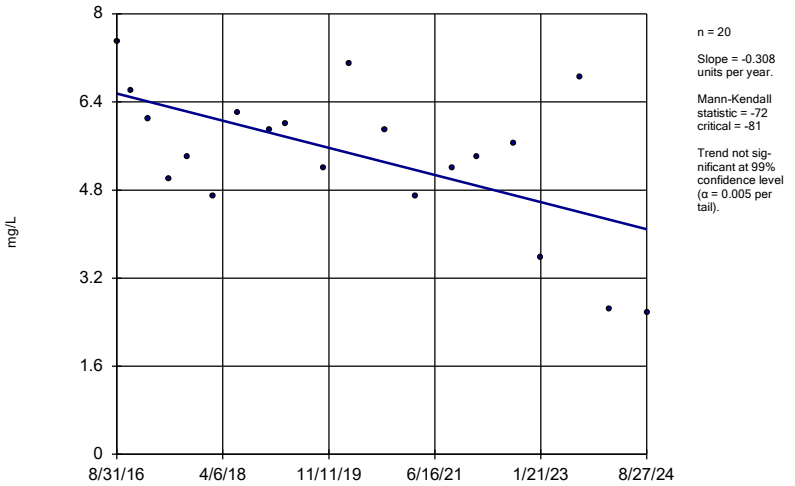
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -0.308 units per year.

Mann-Kendall statistic = -72 critical = -81

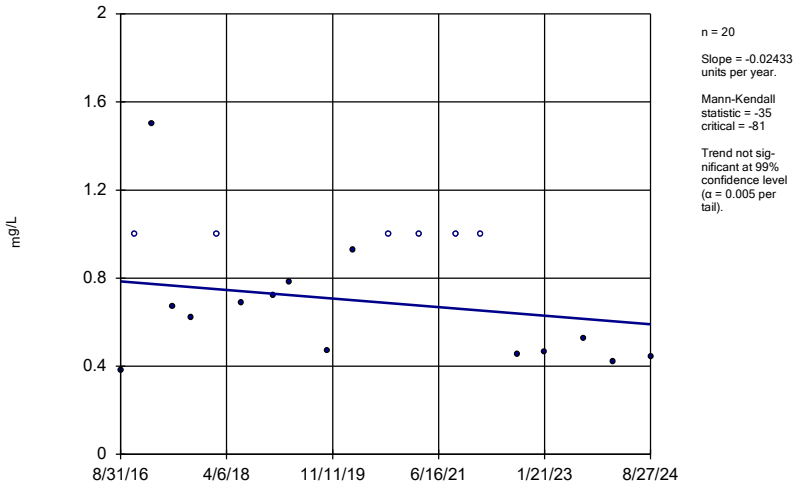
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.02433 units per year.

Mann-Kendall statistic = -35 critical = -81

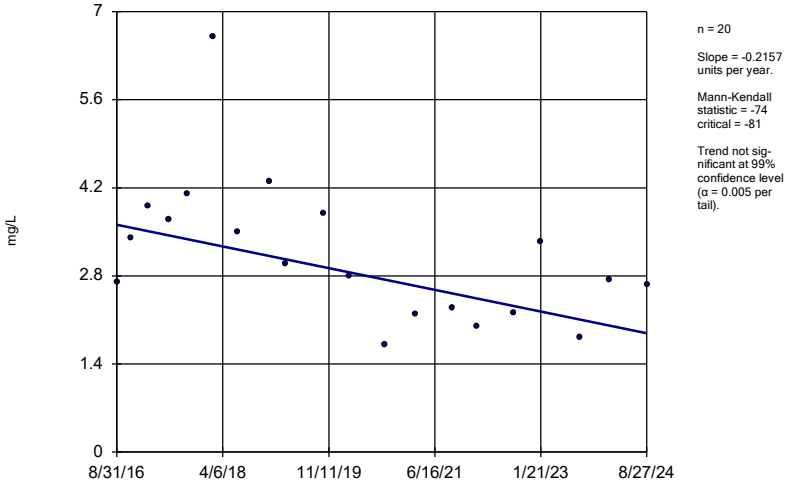
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -0.2157 units per year.

Mann-Kendall statistic = -74 critical = -81

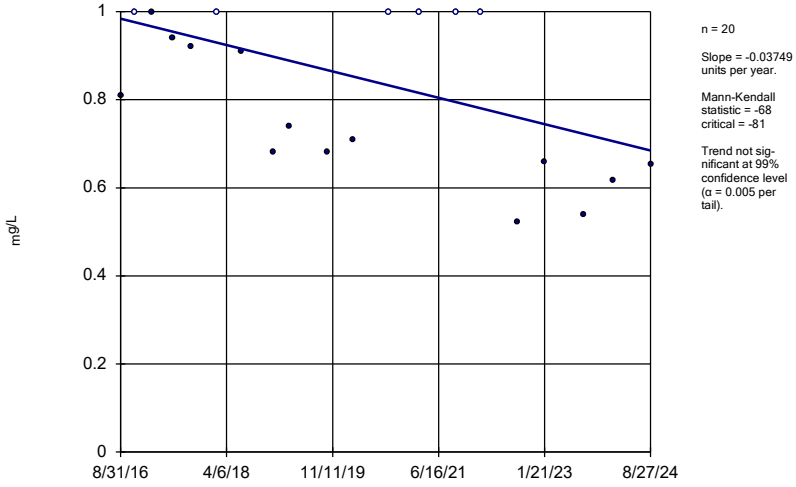
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -0.03749 units per year.

Mann-Kendall statistic = -68 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

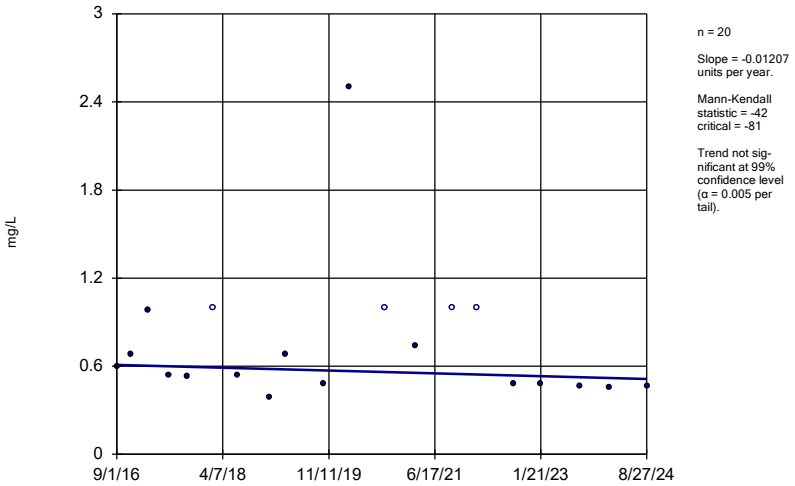
Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = -0.01207 units per year.

Mann-Kendall statistic = -42
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

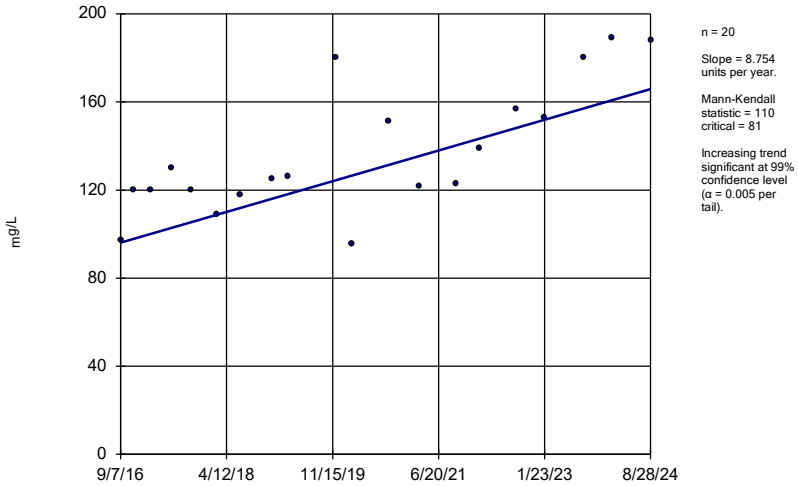
Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 20

Slope = 8.754 units per year.

Mann-Kendall statistic = 110
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

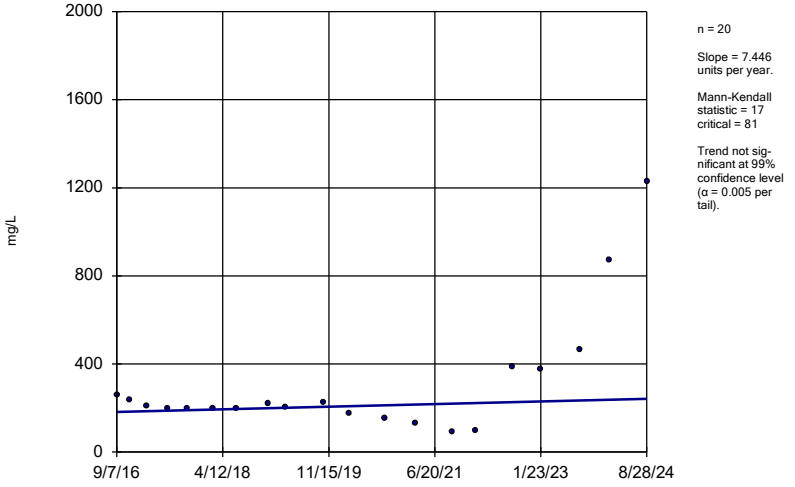
Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 20

Slope = 7.446 units per year.

Mann-Kendall statistic = 17
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

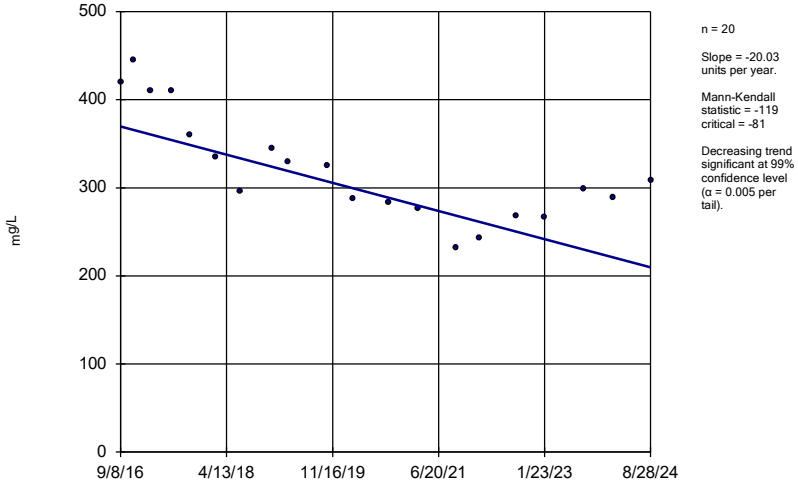
Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 20

Slope = -20.03 units per year.

Mann-Kendall statistic = -119
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

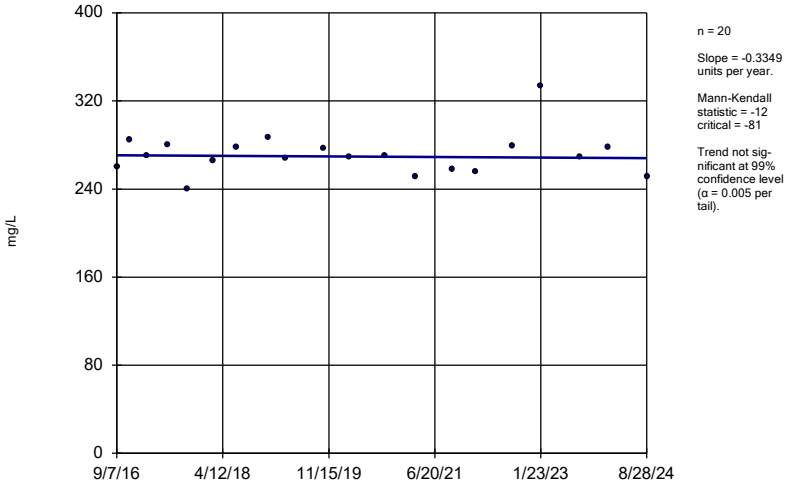
Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 20

Slope = -0.3349 units per year.

Mann-Kendall statistic = -12
critical = -81

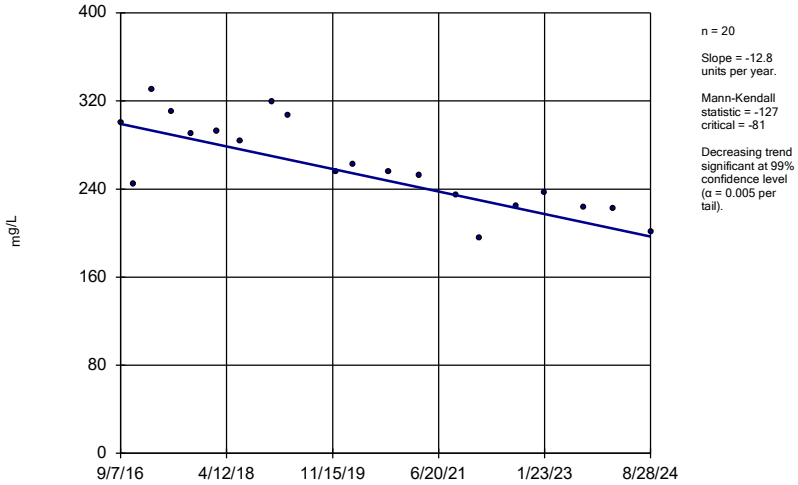
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 20

Slope = -12.8 units per year.

Mann-Kendall statistic = -127
critical = -81

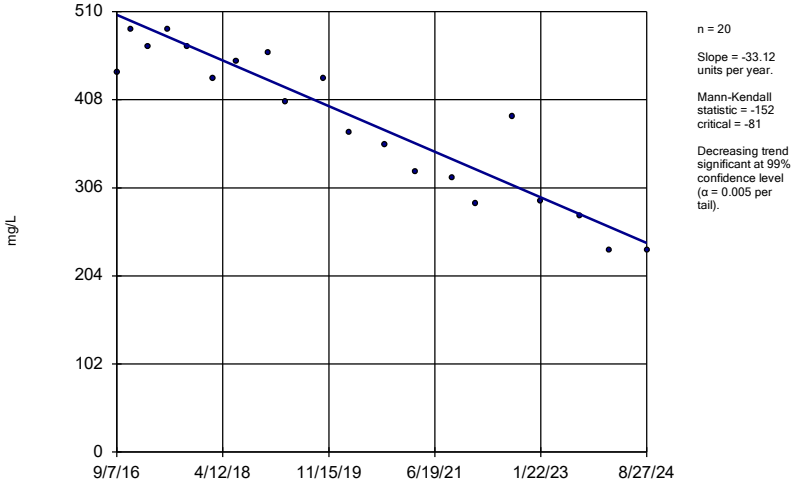
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = -33.12 units per year.

Mann-Kendall statistic = -152
critical = -81

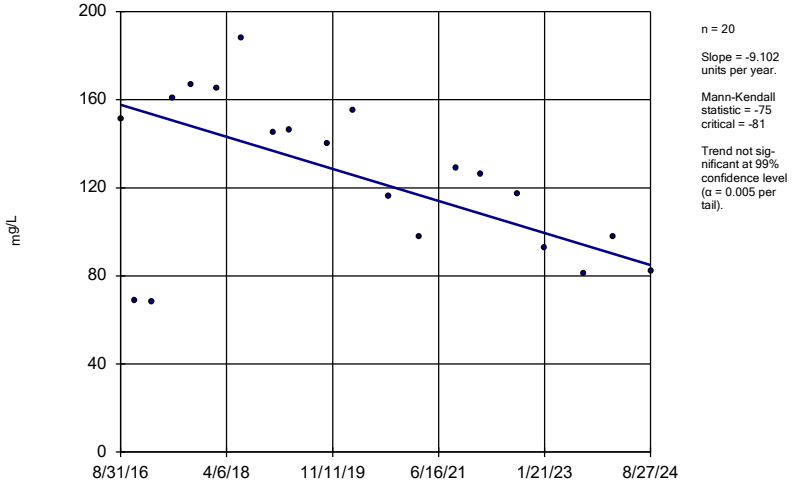
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend Tests
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 20

Slope = -9.102 units per year.

Mann-Kendall statistic = -75
critical = -81

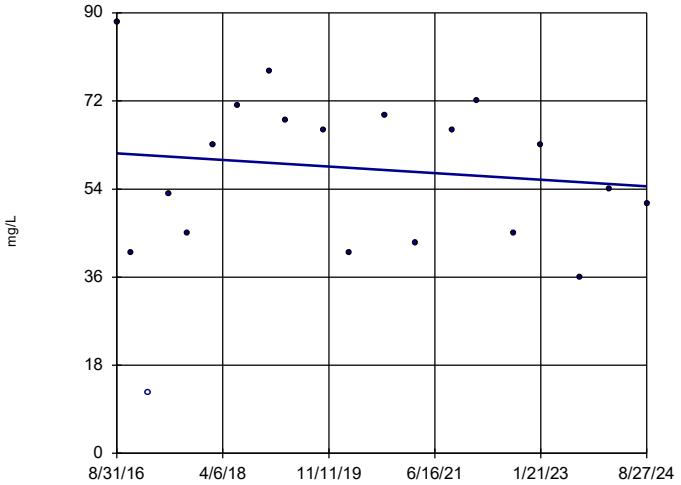
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 20

Slope = -0.8471 units per year.

Mann-Kendall statistic = -12
critical = -81

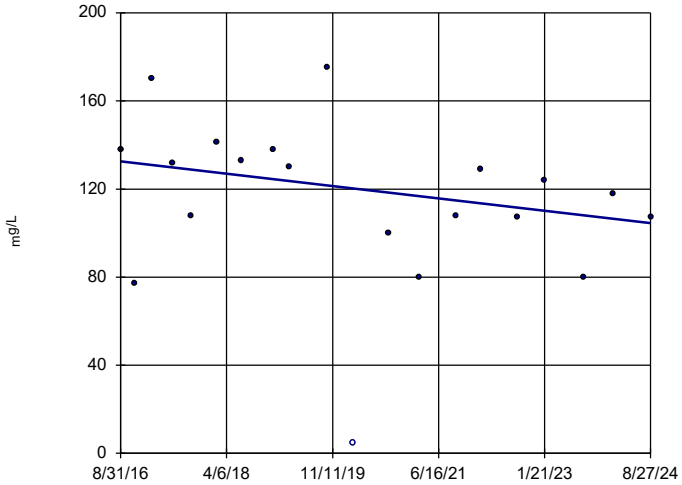
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 20

Slope = -3.51 units per year.

Mann-Kendall statistic = -54
critical = -81

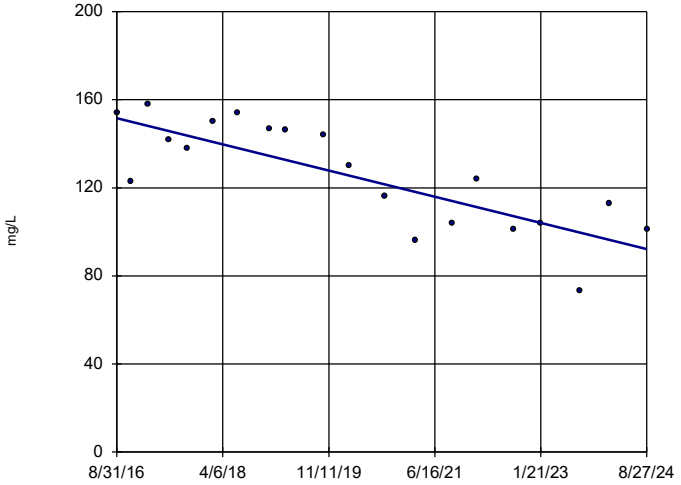
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 20

Slope = -7.447 units per year.

Mann-Kendall statistic = -115
critical = -81

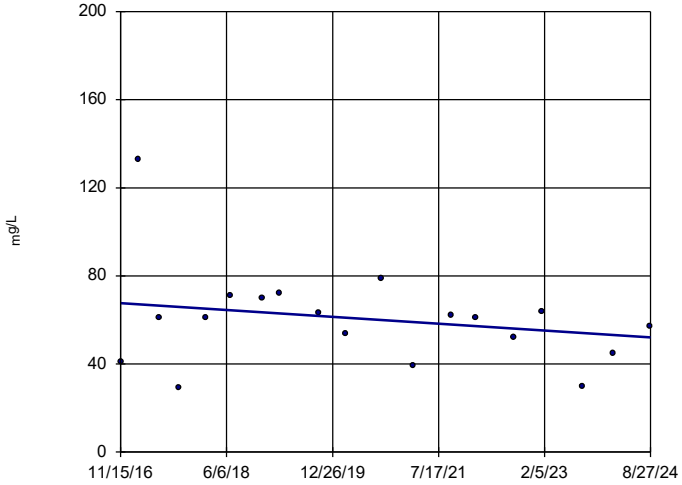
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 19

Slope = -1.988 units per year.

Mann-Kendall statistic = -30
critical = -74

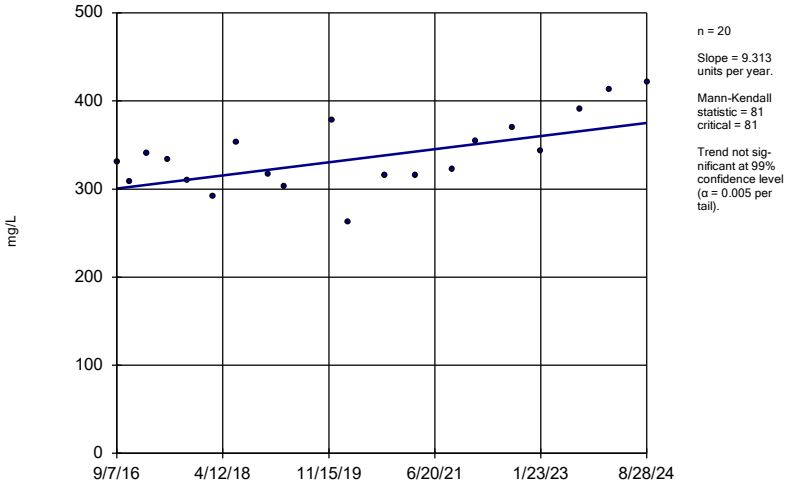
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 20

Slope = 9.313 units per year.

Mann-Kendall statistic = 81
critical = 81

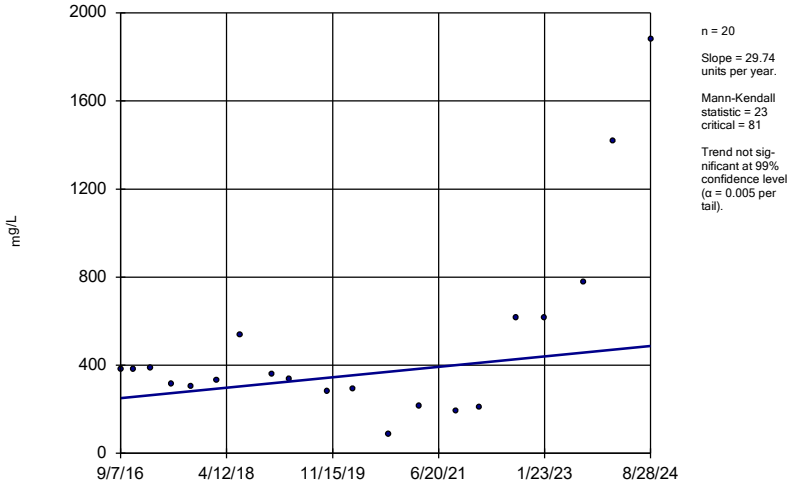
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 20

Slope = 29.74 units per year.

Mann-Kendall statistic = 23
critical = 81

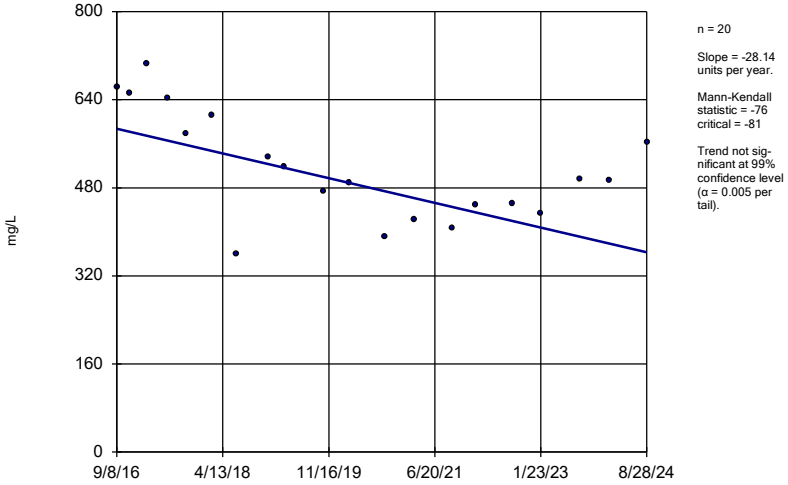
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 20

Slope = -28.14 units per year.

Mann-Kendall statistic = -76
critical = -81

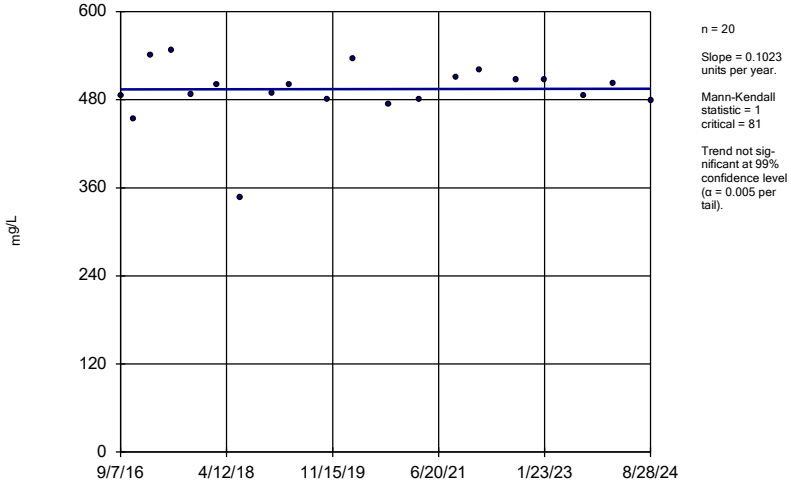
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 20

Slope = 0.1023 units per year.

Mann-Kendall statistic = 1
critical = 81

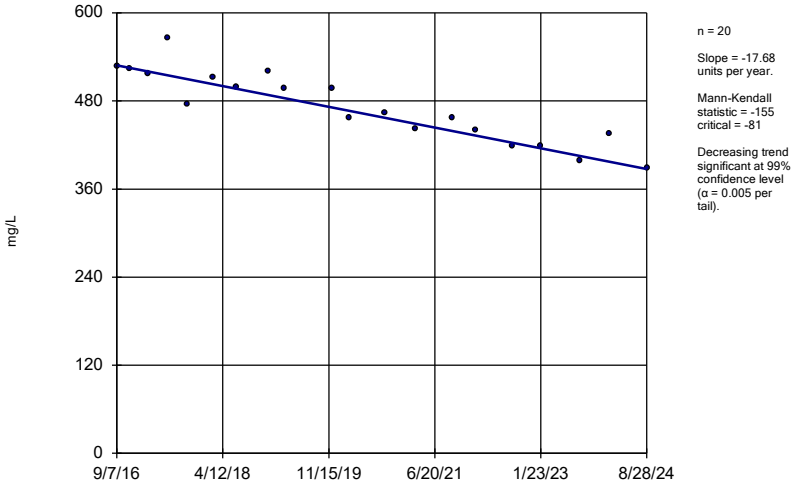
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 20

Slope = -17.68 units per year.

Mann-Kendall statistic = -155
critical = -81

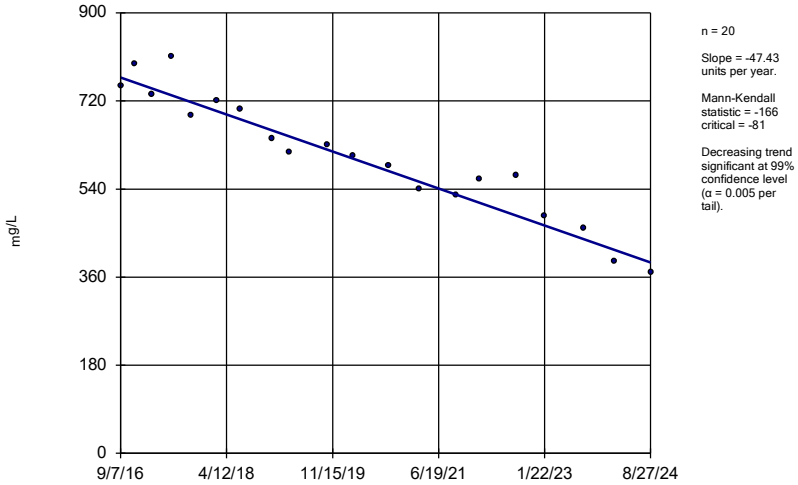
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 20

Slope = -47.43 units per year.

Mann-Kendall statistic = -166
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/15/2024 5:28 PM View: Pond E - Appendix III Trend T
Plant Branch Client: Southern Company Data: Plant Branch AP

Appendix III Trend Tests - Signfiicant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/15/2024, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**BRGWC-35S**	**0.1444**	**156**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02442**	**99**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-38S**	**-0.05273**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.1911**	**100**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1244**	**107**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.196**	**133**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-36S**	**-1.058**	**-91**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-38S**	**-2.243**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1245**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06359**	**-100**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-17S**	**0.1933**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-36S**	**0.5972**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2I (bg)**	**-0.06454**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-2S (bg)**	**-0.03038**	**-116**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWA-5S (bg)**	**-0.0462**	**-104**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-33S**	**-0.01467**	**-99**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	**BRGWC-38S**	**-0.07783**	**-103**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-17S**	**8.754**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-34S**	**-20.03**	**-119**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-36S**	**-12.8**	**-127**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-33.12**	**-152**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-115**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-36S**	**-17.68**	**-155**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**BRGWC-38S**	**-47.43**	**-166**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**

FIGURE F.

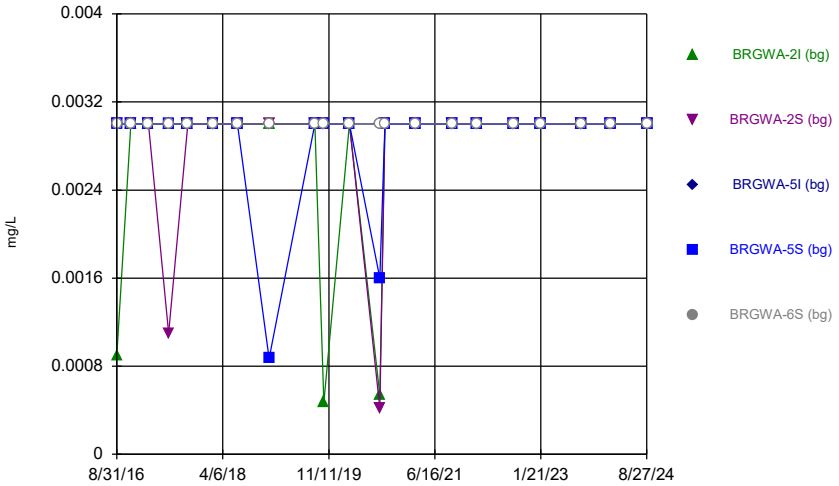
Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 10:58 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	105	n/a	n/a	93.33	n/a	n/a	0.004581	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	105	n/a	n/a	80	n/a	n/a	0.004581	NP Inter(NDs)
Barium (mg/L)	n/a	0.063	n/a	n/a	n/a	105	n/a	n/a	0	n/a	n/a	0.004581	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	105	n/a	n/a	14.29	n/a	n/a	0.004581	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0034	n/a	n/a	n/a	103	n/a	n/a	43.69	n/a	n/a	0.005076	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.07	n/a	n/a	n/a	105	0.8336	0.3156	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.289	n/a	n/a	n/a	110	n/a	n/a	49.09	n/a	n/a	0.003545	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	105	n/a	n/a	83.81	n/a	n/a	0.004581	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	105	n/a	n/a	46.67	n/a	n/a	0.004581	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	95	n/a	n/a	89.47	n/a	n/a	0.007651	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	105	n/a	n/a	66.67	n/a	n/a	0.004581	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	105	n/a	n/a	100	n/a	n/a	0.004581	NP Inter(NDs)

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

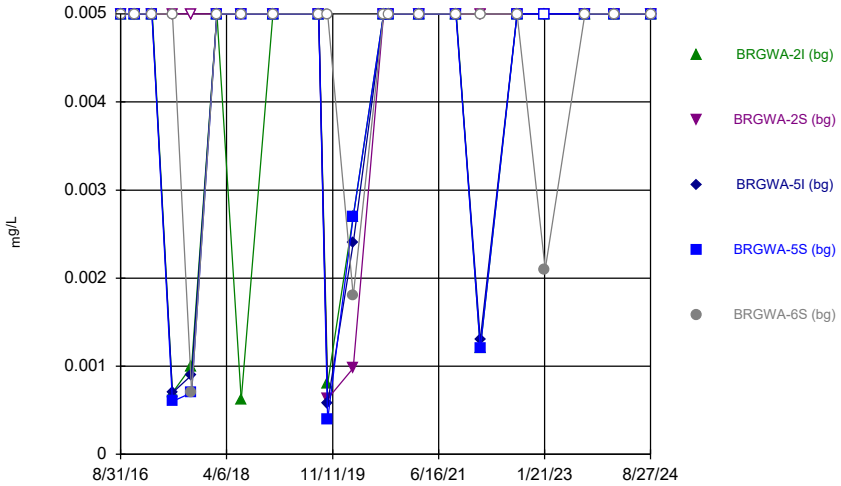
Time Series



Constituent: Antimony Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

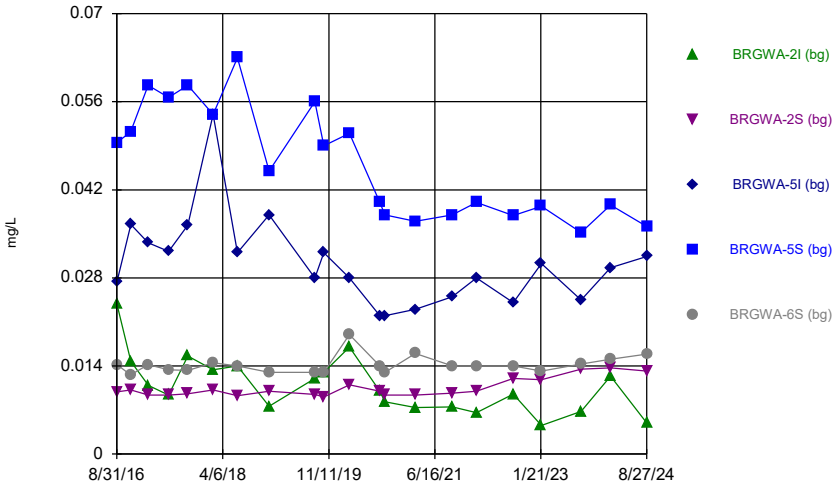
Time Series



Constituent: Arsenic Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

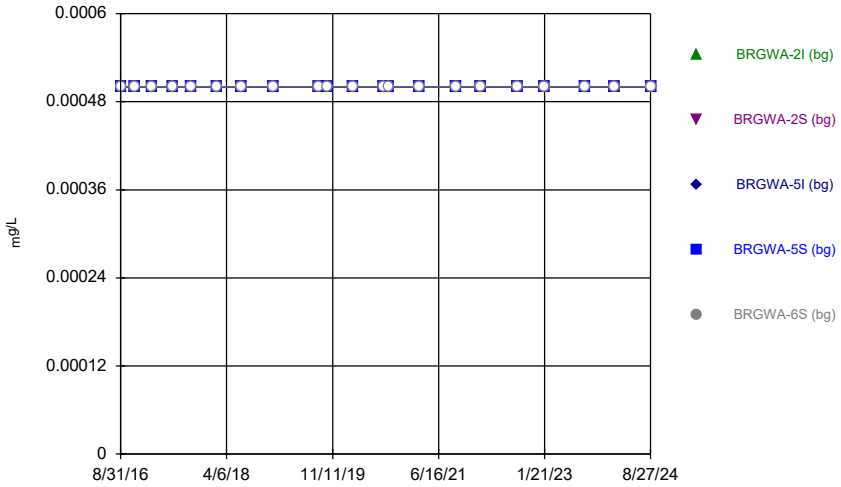
Time Series



Constituent: Barium Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

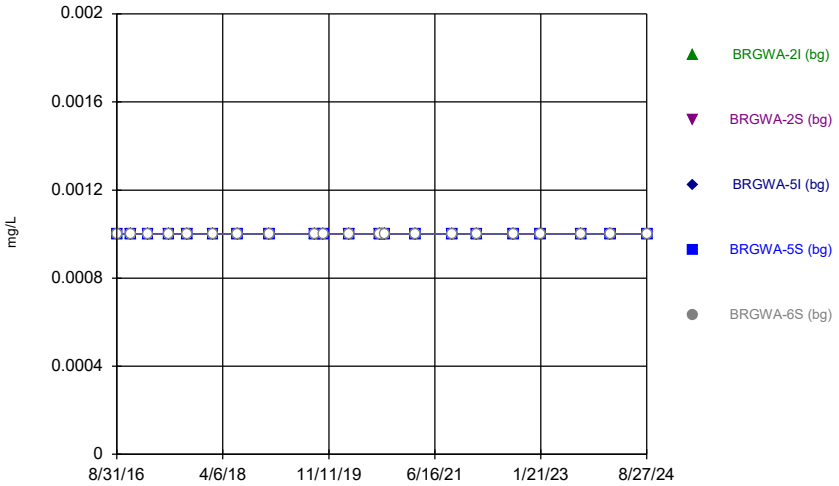
Time Series



Constituent: Beryllium Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

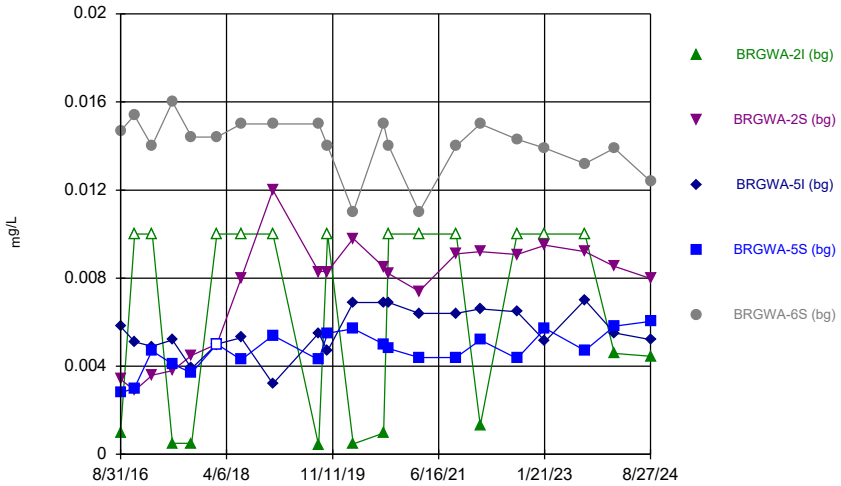
Time Series



Constituent: Cadmium Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

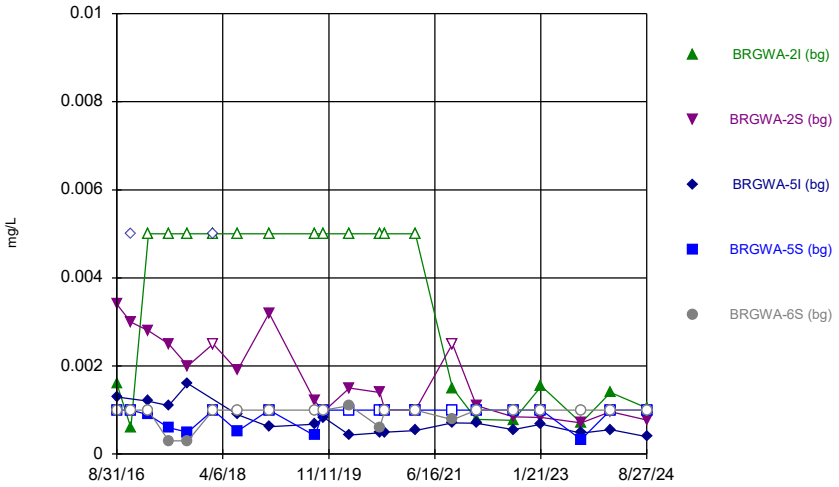
Time Series



Constituent: Chromium Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

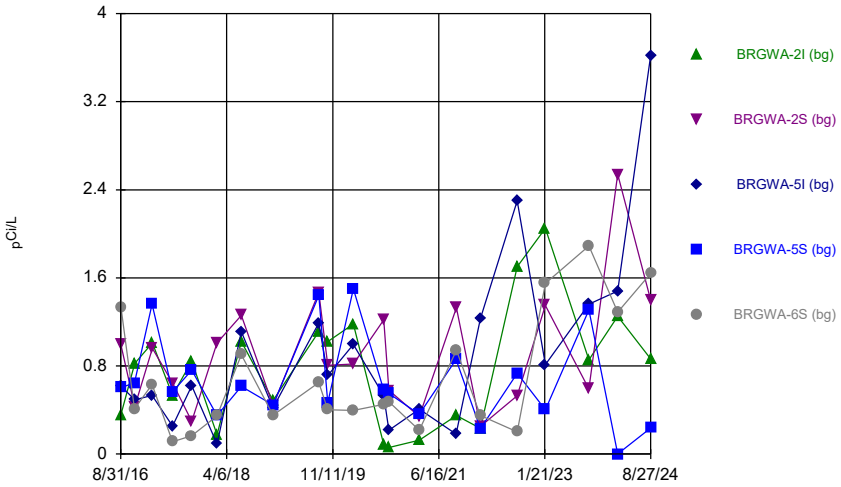
Time Series



Constituent: Cobalt Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

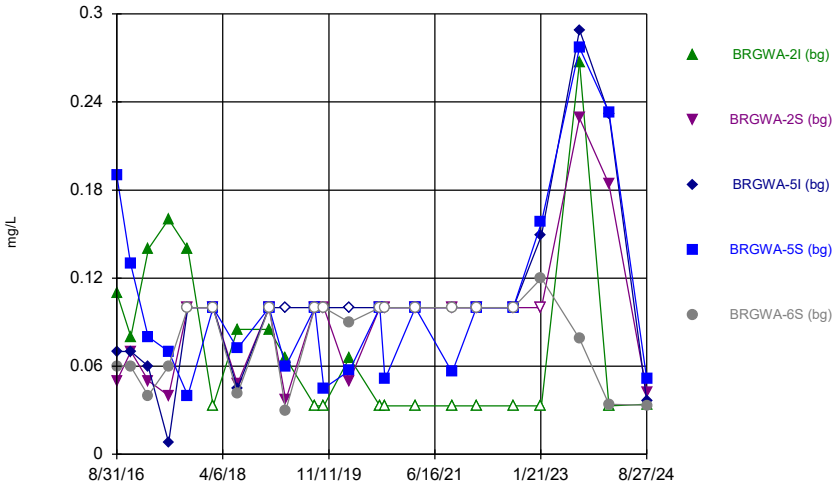
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

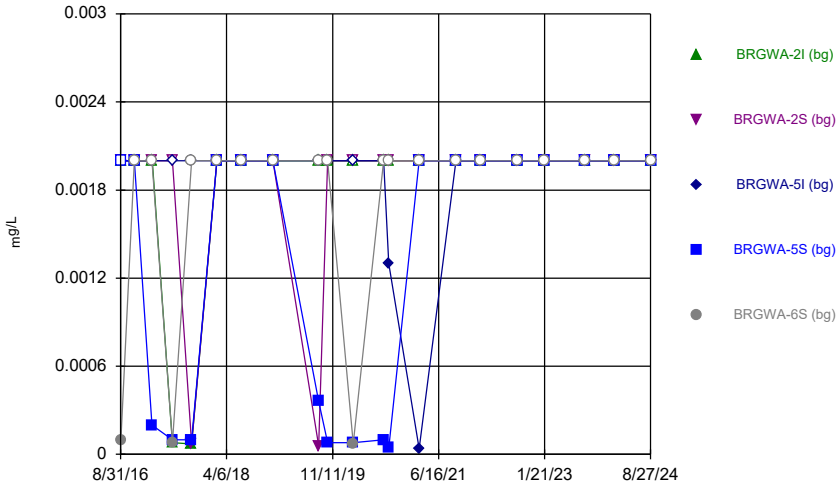
Time Series



Constituent: Fluoride Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

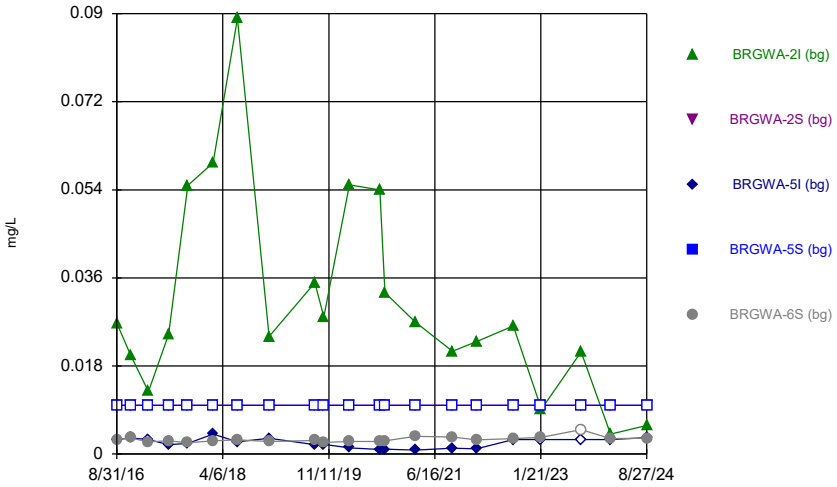
Time Series



Constituent: Lead Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

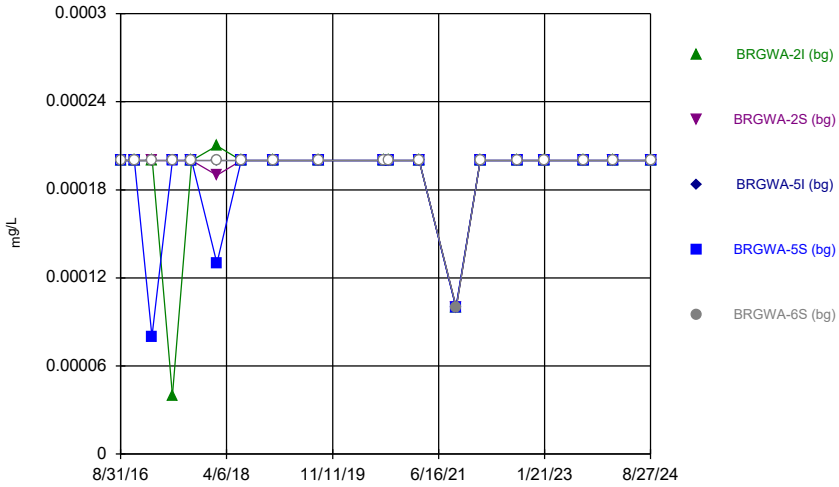
Time Series



Constituent: Lithium Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

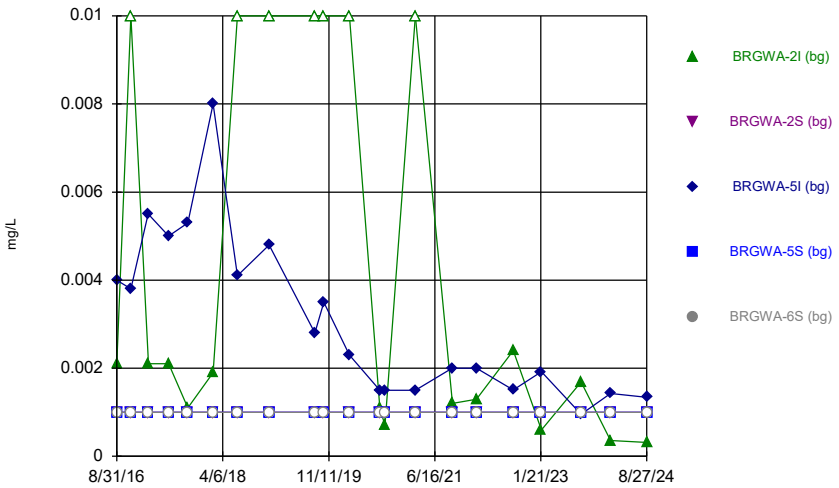
Time Series



Constituent: Mercury Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

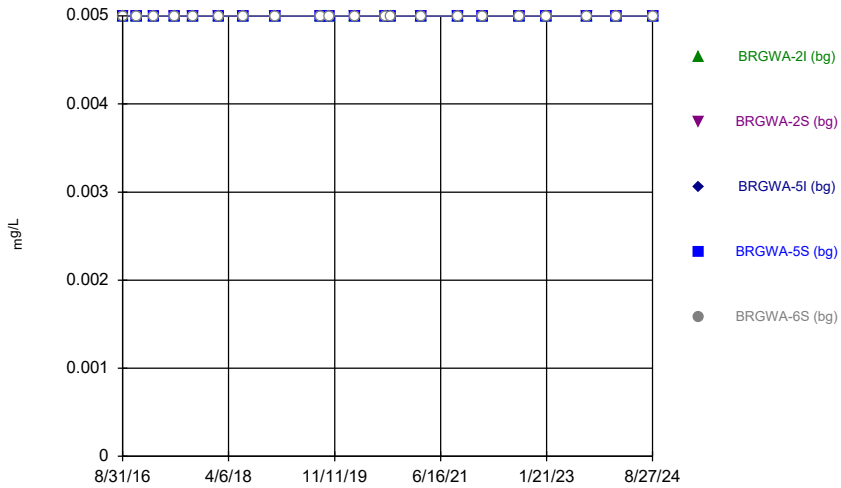
Time Series



Constituent: Molybdenum Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

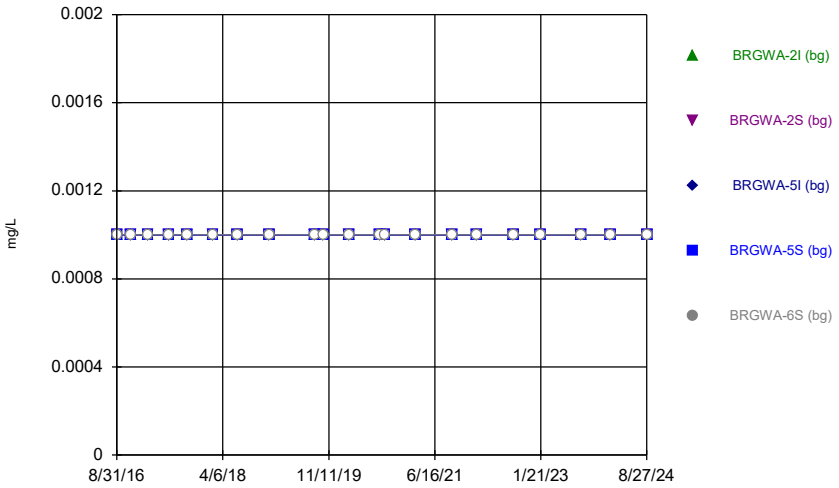
Time Series



Constituent: Selenium Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

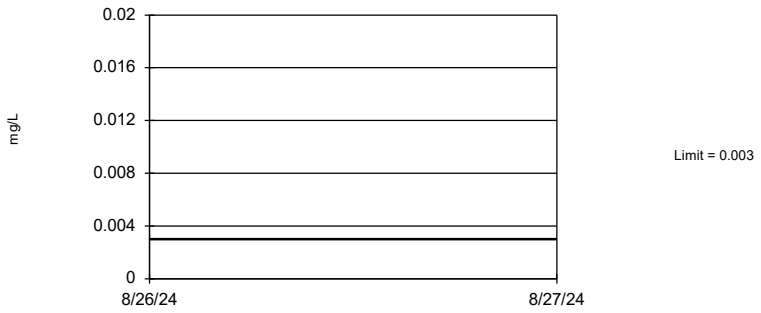


Constituent: Thallium Analysis Run 11/18/2024 10:57 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 105 background values. 93.33% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Antimony Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



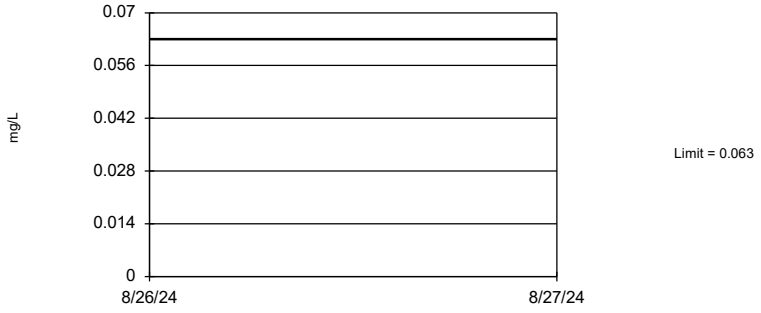
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 105 background values. 80% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Arsenic Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



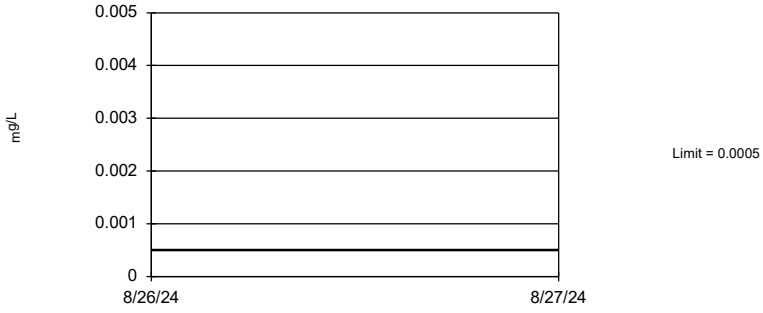
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Barium Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



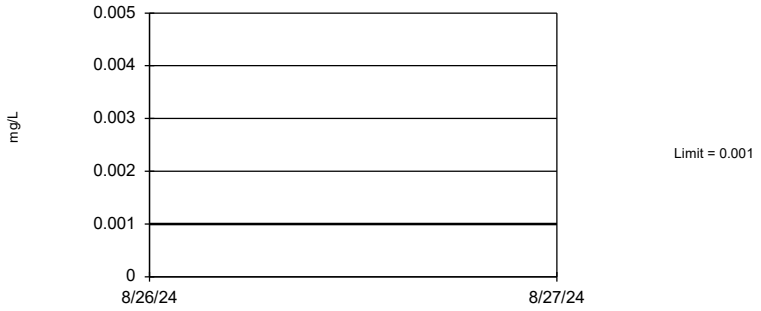
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Beryllium Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Cadmium Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



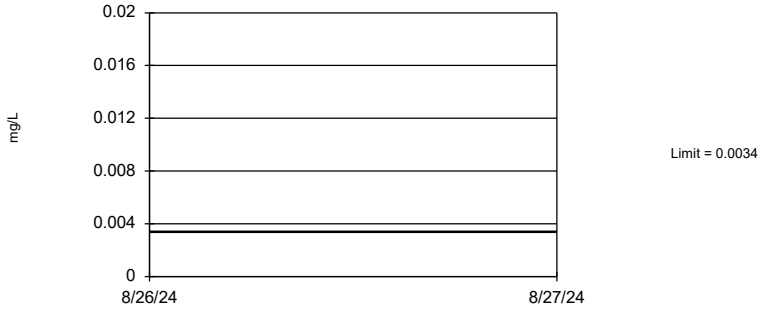
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 14.29% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Chromium Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



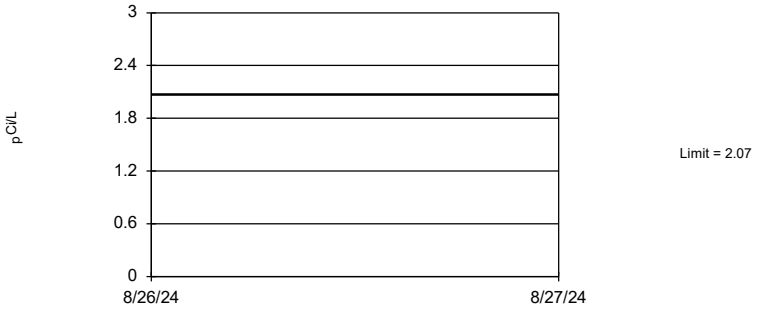
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 103 background values. 43.69% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005076.

Constituent: Cobalt Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Parametric



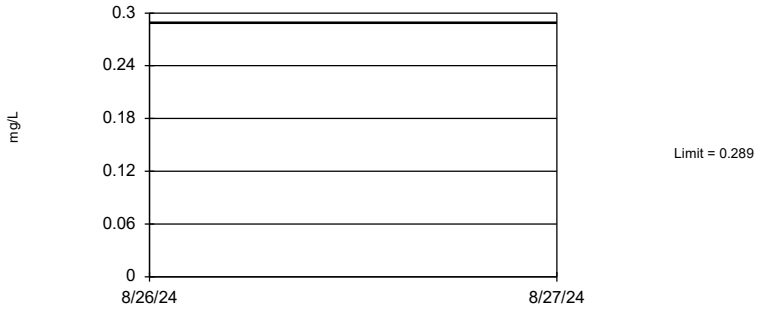
95% coverage. Background Data Summary (based on square root transformation): Mean=0.8336, Std. Dev.=0.3156, n=105. Normality test: Chi Squared @alpha = 0.01, calculated = 10.33, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



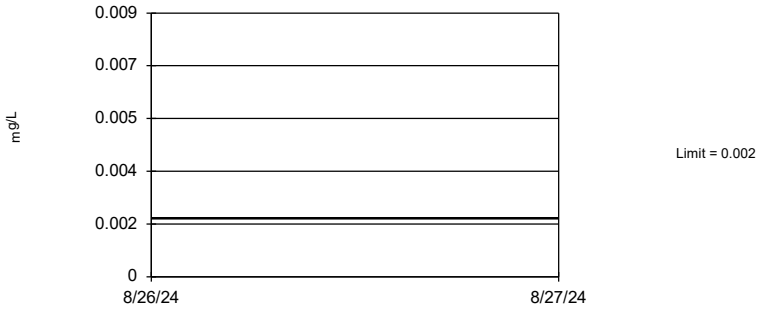
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 110 background values. 49.09% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Fluoride Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



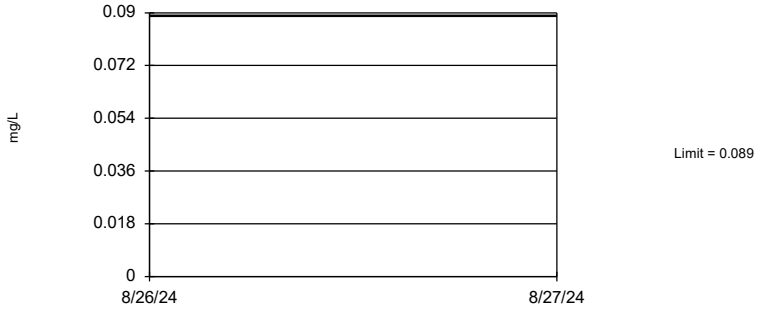
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 105 background values. 83.81% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Lead Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



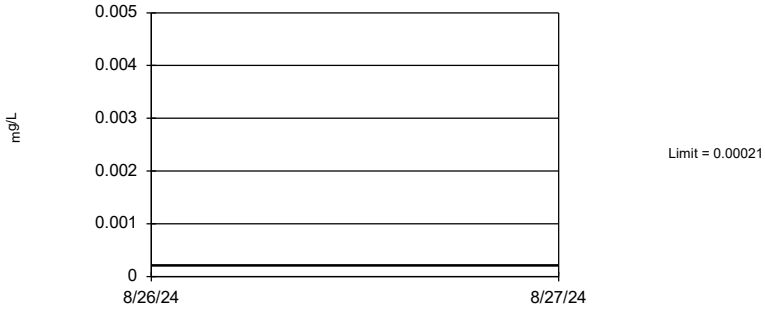
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 46.67% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Lithium Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 95 background values. 89.47% NDs. 95.12% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.007651.

Constituent: Mercury Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 105 background values. 66.67% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Molybdenum Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Selenium Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004581.

Constituent: Thallium Analysis Run 11/18/2024 10:55 AM View: Pond E - UTLs
Plant Branch Client: Southern Company Data: Plant Branch AP

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	0.0009 (J)	<0.003	<0.003	<0.003	
9/1/2016					<0.003
11/15/2016		<0.003			<0.003
11/16/2016	<0.003		<0.003	<0.003	
2/20/2017		<0.003	<0.003		<0.003
2/21/2017	<0.003			<0.003	
6/12/2017	<0.003	<0.003	<0.003		<0.003
6/13/2017				0.0011 (J)	
9/26/2017	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2018	<0.003	<0.003	<0.003	<0.003	<0.003
6/26/2018	<0.003	<0.003	<0.003	<0.003	<0.003
12/18/2018	<0.003	0.00087 (J)	<0.003	<0.003	<0.003
8/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
10/15/2019	0.00047 (J)	<0.003	<0.003	<0.003	<0.003
3/3/2020	<0.003	<0.003	<0.003	<0.003	<0.003
8/18/2020	0.00054 (J)	0.0016 (J)	<0.003	0.00042 (J)	<0.003
9/15/2020	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2021	<0.003				<0.003
3/2/2021		<0.003	<0.003	<0.003	
9/21/2021		<0.003	<0.003		
9/22/2021	<0.003			<0.003	<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	<0.003
8/23/2022	<0.003	<0.003	<0.003	<0.003	<0.003
1/24/2023	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2023	<0.003	<0.003	<0.003	<0.003	<0.003
2/10/2024	<0.003	<0.003	<0.003	<0.003	<0.003
8/27/2024	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	<0.005	<0.005	<0.005	<0.005	
9/1/2016					<0.005
11/15/2016		<0.005			<0.005
11/16/2016	<0.005		<0.005	<0.005	
2/20/2017		<0.005	<0.005		<0.005
2/21/2017	<0.005			<0.005	
6/12/2017	0.0007 (J)	0.0006 (J)	0.0007 (J)		<0.005
6/13/2017				<0.005	
9/26/2017	0.001 (J)	0.0007 (J)	0.0009 (J)	<0.005	0.0007 (J)
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005
6/26/2018	0.00062 (J)	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005 (X)	<0.005 (X)	<0.005 (X)	<0.005 (X)
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005
10/15/2019	0.0008 (J)	0.00039 (J)	0.00058 (J)	0.00063 (J)	<0.005
3/3/2020	0.0027 (J)	0.0027 (J)	0.0024 (J)	0.00098 (J)	0.0018 (J)
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021	<0.005				<0.005
3/2/2021		<0.005	<0.005	<0.005	
9/21/2021		<0.005	<0.005		
9/22/2021	<0.005			<0.005	<0.005
2/1/2022	0.0012 (J)	0.0012 (J)	0.0013 (J)	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	0.0021 (J)
8/31/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2024	<0.005	<0.005	<0.005	<0.005	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	0.0239	0.0495	0.0273	0.0099 (J)	
9/1/2016					0.0142
11/15/2016		0.0512			0.0126
11/16/2016	0.0147		0.0365	0.0102	
2/20/2017		0.0586	0.0336		0.0142
2/21/2017	0.0109			0.0094 (J)	
6/12/2017	0.0094 (J)	0.0567	0.0322		0.0134
6/13/2017				0.0094 (J)	
9/26/2017	0.0156	0.0586	0.0364	0.0096 (J)	0.0133
2/13/2018	0.0134	0.054	0.054	0.0102	0.0145
6/26/2018	0.014	0.063	0.032	0.0093 (J)	0.014
12/18/2018	0.0076 (J)	0.045	0.038	0.01	0.013
8/27/2019	0.012	0.056	0.028	0.0095 (J)	0.013
10/15/2019	0.013	0.049	0.032	0.0091 (J)	0.013
3/3/2020	0.017	0.051	0.028	0.011	0.019
8/18/2020	0.01 (J)	0.04	0.022	0.01	0.014
9/15/2020	0.0083 (J)	0.038	0.022	0.0094 (J)	0.013
3/1/2021	0.0074				0.016
3/2/2021		0.037	0.023	0.0094	
9/21/2021		0.038	0.025		
9/22/2021	0.0075			0.0097	0.014
2/1/2022	0.0066	0.04	0.028	0.01	0.014
8/23/2022	0.00954	0.0379	0.0241	0.012	0.014
1/24/2023	0.00453	0.0394	0.0303	0.0118	0.0132
8/31/2023	0.0068	0.0352	0.0245	0.0135	0.0143
2/10/2024	0.0124	0.0396	0.0296	0.0137	0.0151
8/27/2024	0.00493	0.0362	0.0314	0.0132	0.0159

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2016					<0.0005
11/15/2016		<0.0005			<0.0005
11/16/2016	<0.0005		<0.0005	<0.0005	
2/20/2017		<0.0005	<0.0005		<0.0005
2/21/2017	<0.0005			<0.0005	
6/12/2017	<0.0005	<0.0005	<0.0005		<0.0005
6/13/2017				<0.0005	
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/3/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2021	<0.0005				<0.0005
3/2/2021		<0.0005	<0.0005	<0.0005	
9/21/2021		<0.0005	<0.0005		
9/22/2021	<0.0005			<0.0005	<0.0005
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/27/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	<0.001	<0.001	<0.001	<0.001	
9/1/2016					<0.001
11/15/2016		<0.001			<0.001
11/16/2016	<0.001		<0.001	<0.001	
2/20/2017		<0.001	<0.001		<0.001
2/21/2017	<0.001			<0.001	
6/12/2017	<0.001	<0.001	<0.001		<0.001
6/13/2017				<0.001	
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021	<0.001				<0.001
3/2/2021		<0.001	<0.001	<0.001	
9/21/2021		<0.001	<0.001		
9/22/2021	<0.001			<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2024	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2024	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	0.001 (J)	0.0028 (J)	0.0058 (J)	0.0034 (J)	
9/1/2016					0.0147
11/15/2016		0.003 (J)			0.0154 (B)
11/16/2016	<0.01		0.0051 (J)	0.0029 (J)	
2/20/2017		0.0047 (J)	0.0049 (J)		0.014
2/21/2017	<0.01			0.0036 (J)	
6/12/2017	0.0005 (J)	0.0041 (J)	0.0052 (J)		0.016
6/13/2017				0.0038 (J)	
9/26/2017	0.0005 (J)	0.0037 (J)	0.0039 (J)	0.0045 (J)	0.0144
2/13/2018	<0.01	<0.01	<0.01	<0.01	0.0144
6/26/2018	<0.01	0.0043 (J)	0.0053 (J)	0.008 (J)	0.015
12/18/2018	<0.01	0.0054 (J)	0.0032 (J)	0.012	0.015
8/27/2019	0.0004 (J)	0.0043 (J)	0.0055 (J)	0.0083 (J)	0.015
10/15/2019	<0.01	0.0055 (J)	0.0047 (J)	0.0083 (J)	0.014
3/3/2020	0.00047 (J)	0.0057 (J)	0.0069 (J)	0.0098 (J)	0.011
8/18/2020	0.00096 (J)	0.005 (J)	0.0069 (J)	0.0085 (J)	0.015
9/15/2020	<0.01	0.0048 (J)	0.0069 (J)	0.0082 (J)	0.014
3/1/2021	<0.01				0.011
3/2/2021		0.0044 (J)	0.0064	0.0074	
9/21/2021		0.0044 (J)	0.0064		
9/22/2021	<0.01			0.0091	0.014
2/1/2022	0.0013 (J)	0.0052	0.0066	0.0092	0.015
8/23/2022	<0.01	0.00435 (J)	0.00647 (J)	0.00908 (J)	0.0143
1/24/2023	<0.01	0.00572 (J)	0.00513 (J)	0.0095 (J)	0.0139
8/31/2023	<0.01	0.00472 (J)	0.00701 (J)	0.00921 (J)	0.0132
2/10/2024	0.00458 (J)	0.00582 (J)	0.00551 (J)	0.00854 (J)	0.0139
8/27/2024	0.00445 (J)	0.00604 (J)	0.00521 (J)	0.00799 (J)	0.0124

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)
8/31/2016	0.0016 (J)	0.0013 (J)	0.0034 (J)	<0.001	
9/1/2016					<0.001
11/15/2016				<0.001	<0.001
11/16/2016	0.0006 (J)	<0.01 (o)	0.003 (J)		
2/20/2017		0.0012 (J)		0.0009 (J)	<0.001
2/21/2017	<0.001		0.0028 (J)		
6/12/2017	<0.001	0.0011 (J)		0.0006 (J)	0.0003 (J)
6/13/2017			0.0025 (J)		
9/26/2017	<0.001	0.0016 (J)	0.002 (J)	0.0005 (J)	0.0003 (J)
2/13/2018	<0.001	<0.01 (o)	<0.001	<0.001	<0.001
6/26/2018	<0.001	0.0009 (J)	0.0019 (J)	0.00052 (J)	<0.001
12/18/2018	<0.001	0.00062 (J)	0.0032 (J)	<0.001	<0.001
8/27/2019	<0.001	0.00068 (J)	0.0012 (J)	0.00042 (J)	<0.001
10/15/2019	<0.001	0.00083 (J)	0.00097 (J)	<0.001	<0.001
3/3/2020	<0.001	0.00043 (J)	0.0015 (J)	<0.001	0.0011 (J)
8/18/2020	<0.001	0.00048 (J)	0.0014 (J)	<0.001	0.00061 (J)
9/15/2020	<0.001	0.0005 (J)	0.001 (J)	<0.001	<0.001
3/1/2021	<0.001				<0.001
3/2/2021		0.00053 (J)	0.001 (J)	<0.001	
9/21/2021		0.00071 (J)		<0.001	
9/22/2021	0.0015 (J)		<0.001		0.00078 (J)
2/1/2022	0.00079 (J)	0.0007 (J)	0.0011 (J)	<0.001	<0.001
8/23/2022	0.000767 (J)	0.000553 (J)	0.000844 (J)	<0.001	<0.001
1/24/2023	0.00154	0.000677 (J)	0.000829 (J)	<0.001	<0.001
8/31/2023	0.000707 (J)	0.000474 (J)	0.000707 (J)	0.000327 (J)	<0.001
2/10/2024	0.0014	0.000555 (J)	0.000962 (J)	<0.001	<0.001
8/27/2024	0.00105	0.000396 (J)	0.000772 (J)	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	0.351 (U)	0.603 (U)	0.62 (U)	1 (U)	
9/1/2016					1.33
11/15/2016		0.645 (U)			0.412 (U)
11/16/2016	0.824 (U)		0.493 (U)	0.43 (U)	
2/20/2017		1.36	0.534 (U)		0.633 (U)
2/21/2017	1.01 (U)			0.96 (U)	
6/12/2017	0.532 (U)	0.566 (U)	0.254 (U)		0.112 (U)
6/13/2017				0.645 (U)	
9/26/2017	0.845 (U)	0.762 (U)	0.62 (U)	0.299 (U)	0.167 (U)
2/13/2018	0.176 (U)	0.349 (U)	0.0914 (U)	1.01 (U)	0.347 (U)
6/26/2018	1.02 (U)	0.614 (U)	1.11 (U)	1.26 (J+X)	0.903 (U)
12/18/2018	0.487 (U)	0.445 (U)	0.42 (U)	0.44 (U)	0.353 (U)
8/27/2019	1.11	1.44	1.19	1.47	0.65 (U)
10/15/2019	1.02 (U)	0.467 (U)	0.714 (U)	0.807 (U)	0.402 (U)
3/3/2020	1.18 (U)	1.5	0.996 (U)	0.818 (U)	0.397 (U)
8/18/2020	0.0861 (U)	0.581 (U)	0.53 (U)	1.22 (U)	0.453 (U)
9/15/2020	0.0583 (U)	0.55 (U)	0.215 (U)	0.579 (U)	0.474 (U)
3/1/2021	0.127 (U)				0.215 (U)
3/2/2021		0.362 (U)	0.409 (U)	0.342 (U)	
9/21/2021		0.86 (U)	0.182 (U)		
9/22/2021	0.349 (U)			1.33 (U)	0.943 (U)
2/1/2022	0.233 (U)	0.23 (U)	1.23	0.251 (U)	0.349 (U)
8/23/2022	1.7	0.735	2.3	0.531	0.203
1/24/2023	2.05 (U)	0.402 (U)	0.811 (U)	1.35 (U)	1.55 (U)
9/22/2023	0.857 (U)	1.31 (U)	1.36	0.592 (U)	1.89 (U)
2/27/2024	1.25	0 (U)	1.48 (U)	2.54	1.29
8/27/2024	0.864 (U)	0.236 (U)	3.62	1.4 (U)	1.64

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)
8/31/2016	0.11 (J)	0.05 (J)	0.19 (J)	0.07 (J)	
9/1/2016					0.06 (J)
11/15/2016			0.13 (J)		0.06 (J)
11/16/2016	0.08 (J)	0.07 (J)		0.07 (J)	
2/20/2017			0.08 (J)	0.06 (J)	0.04 (J)
2/21/2017	0.14 (J)	0.05 (J)			
6/12/2017	0.16 (J)		0.07 (J)	0.008 (J)	0.06 (J)
6/13/2017		0.04 (J)			
9/26/2017	0.14 (J)	<0.033	0.04 (J)	<0.033	<0.033
2/13/2018	<0.033	<0.033	<0.033	<0.033	<0.033
6/26/2018	0.085 (J)	0.048 (J)	0.072 (J)	0.045 (J)	0.041 (J)
12/18/2018	0.085 (J)	<0.033	<0.033	<0.033	<0.033
3/19/2019	0.0655 (JD)	0.037 (J)	0.06 (J)	<0.033	0.03 (J)
8/27/2019	<0.033	<0.033	<0.033	<0.033	<0.033
10/15/2019	<0.033	<0.033	0.045 (J)	<0.033	<0.033
3/3/2020	0.066 (J)	0.05 (J)	0.057 (J)	<0.033	0.09 (J)
8/18/2020	<0.033	<0.033	<0.033	<0.033	<0.033
9/15/2020	<0.033	<0.033	0.051 (J)	<0.033	<0.033
3/1/2021	<0.033				<0.033
3/2/2021		<0.033	<0.033	<0.033	
9/21/2021			0.056 (J)	<0.033	
9/22/2021	<0.033	<0.033			<0.033
2/1/2022	<0.033	<0.033	<0.033	<0.033	<0.033
8/23/2022	<0.033	<0.033	<0.033	<0.033	<0.033
1/24/2023	<0.033	<0.033	0.158	0.149	0.12
8/23/2023	0.267	0.229	0.277	0.289	0.0787 (J)
1/31/2024	<0.033	0.184	0.233	0.232	0.0341 (J)
8/27/2024	0.0342 (J)	0.0426 (J)	0.0516 (J)	0.0365 (J)	0.0334 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	<0.002	<0.002	<0.002	<0.002	
9/1/2016					0.0001 (J)
11/15/2016		<0.002			<0.002
11/16/2016	<0.002		<0.002	<0.002	
2/20/2017		0.0002 (J)	<0.002		<0.002
2/21/2017	<0.002			<0.002	
6/12/2017	8E-05 (J)	0.0001 (J)	<0.002		8E-05 (J)
6/13/2017				<0.002	
9/26/2017	7E-05 (J)	0.0001 (J)	<0.002	7E-05 (J)	<0.002
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2019	<0.002	0.00036 (J)	<0.002	5.8E-05 (J)	<0.002
10/15/2019	<0.002	7.9E-05 (J)	<0.002	<0.002	<0.002
3/3/2020	<0.002	7.9E-05 (J)	<0.002	<0.002	7.3E-05 (J)
8/18/2020	<0.002	0.0001 (J)	<0.002	<0.002	<0.002
9/15/2020	<0.002	4.3E-05 (J)	0.0013 (J)	<0.002	<0.002
3/1/2021	<0.002				<0.002
3/2/2021		<0.002	3.7E-05 (J)	<0.002	
9/21/2021		<0.002	<0.002		
9/22/2021	<0.002			<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2023	<0.002	<0.002	<0.002	<0.002	<0.002
2/10/2024	<0.002	<0.002	<0.002	<0.002	<0.002
8/27/2024	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	0.0268 (J)	<0.01	<0.01	<0.01	
9/1/2016					0.003 (J)
11/15/2016		<0.01			0.0033 (J)
11/16/2016	0.0201 (J)		0.0033 (J)	<0.01	
2/20/2017		<0.01	<0.01		0.0025 (J)
2/21/2017	0.0128 (J)			<0.01	
6/12/2017	0.0245 (J)	<0.01	0.0019 (J)		0.0027 (J)
6/13/2017				<0.01	
9/26/2017	0.0549	<0.01	0.0022 (J)	<0.01	0.0023 (J)
2/13/2018	0.0595	<0.01	0.0041 (J)	<0.01	0.0027 (J)
6/26/2018	0.089	<0.01	0.0025 (J)	<0.01	0.0029 (J)
12/18/2018	0.024 (J)	<0.01	0.0032 (J)	<0.01	0.0026 (J)
8/27/2019	0.035	<0.01	0.0019 (J)	<0.01	0.0028 (J)
10/15/2019	0.028 (J)	<0.01	0.002 (J)	<0.01	0.0024 (J)
3/3/2020	0.055	<0.01	0.0013 (J)	<0.01	0.0026 (J)
8/18/2020	0.054	<0.01	0.00095 (J)	<0.01	0.0026 (J)
9/15/2020	0.033	<0.01	0.001 (J)	<0.01	0.0027 (J)
3/1/2021	0.027 (J)				0.0036 (J)
3/2/2021		<0.01	0.00081 (J)	<0.01	
9/21/2021		<0.01	0.0012 (J)		
9/22/2021	0.021 (J)			<0.01	0.0035 (J)
2/1/2022	0.023 (J)	<0.01	0.0011 (J)	<0.01	0.0029 (J)
8/23/2022	0.0262	<0.01	<0.01	<0.01	0.00314 (J)
1/24/2023	0.00919 (J)	<0.01	<0.01	<0.01	0.00341 (J)
8/31/2023	0.0209	<0.01	<0.01	<0.01	<0.01
2/10/2024	0.00407 (J)	<0.01	<0.01	<0.01	0.00317 (J)
8/27/2024	0.00584 (J)	<0.01	0.00337 (J)	<0.01	0.00322 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-6S (bg)
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002	
9/1/2016					<0.0002
11/15/2016			<0.0002		<0.0002
11/16/2016	<0.0002	<0.0002		<0.0002	
2/20/2017			8E-05 (J)	<0.0002	<0.0002
2/21/2017	<0.0002	<0.0002			
6/12/2017	4E-05 (J)		<0.0002	<0.0002	<0.0002
6/13/2017		<0.0002			
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2018	0.00021	0.00019 (J)	0.00013 (J)	<0.0002	<0.0002
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2021	<0.0002				<0.0002
3/2/2021		<0.0002	<0.0002	<0.0002	
9/21/2021			0.0001 (J)	0.0001 (J)	
9/22/2021	0.0001 (J)	0.0001 (J)			0.0001 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/2/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	0.0021 (J)	<0.001	0.004 (J)	<0.001	
9/1/2016					<0.001
11/15/2016		<0.001			<0.001
11/16/2016	<0.001		0.0038 (J)	<0.001	
2/20/2017		<0.001	0.0055 (J)		<0.001
2/21/2017	0.0021 (J)			<0.001	
6/12/2017	0.0021 (J)	<0.001	0.005 (J)		<0.001
6/13/2017				<0.001	
9/26/2017	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001
2/13/2018	0.0019 (J)	<0.001	0.008 (J)	<0.001	<0.001
6/26/2018	<0.001	<0.001	0.0041 (J)	<0.001	<0.001
12/18/2018	<0.001	<0.001	0.0048 (J)	<0.001	<0.001
8/27/2019	<0.001	<0.001	0.0028 (J)	<0.001	<0.001
10/15/2019	<0.001	<0.001	0.0035 (J)	<0.001	<0.001
3/3/2020	<0.001	<0.001	0.0023 (J)	<0.001	<0.001
8/18/2020	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001
9/15/2020	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001
3/1/2021	<0.001				<0.001
3/2/2021		<0.001	0.0015 (J)	<0.001	
9/21/2021		<0.001	0.002 (J)		
9/22/2021	0.0012 (J)			<0.001	<0.001
2/1/2022	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001
8/23/2022	0.0024	<0.001	0.00151	<0.001	<0.001
1/24/2023	0.000601 (J)	<0.001	0.00192	<0.001	<0.001
8/31/2023	0.00169	<0.001	0.000953 (J)	<0.001	<0.001
2/10/2024	0.000362 (J)	<0.001	0.00143	<0.001	<0.001
8/27/2024	0.000313 (J)	<0.001	0.00134	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	<0.005	<0.005	<0.005	<0.005	
9/1/2016					<0.005
11/15/2016		<0.005			<0.005
11/16/2016	<0.005		<0.005	<0.005	
2/20/2017		<0.005	<0.005		<0.005
2/21/2017	<0.005			<0.005	
6/12/2017	<0.005	<0.005	<0.005		<0.005
6/13/2017				<0.005	
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005
6/26/2018	<0.005	<0.005	<0.005	<0.005	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005
10/15/2019	<0.005	<0.005	<0.005	<0.005	<0.005
3/3/2020	<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2021	<0.005				<0.005
3/2/2021		<0.005	<0.005	<0.005	
9/21/2021		<0.005	<0.005		
9/22/2021	<0.005			<0.005	<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005
8/31/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2024	<0.005	<0.005	<0.005	<0.005	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 11/18/2024 10:58 AM View: Pond E - UTLs

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)
8/31/2016	<0.001	<0.001	<0.001	<0.001	
9/1/2016					<0.001
11/15/2016		<0.001			<0.001
11/16/2016	<0.001		<0.001	<0.001	
2/20/2017		<0.001	<0.001		<0.001
2/21/2017	<0.001			<0.001	
6/12/2017	<0.001	<0.001	<0.001		<0.001
6/13/2017				<0.001	
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2021	<0.001				<0.001
3/2/2021		<0.001	<0.001	<0.001	
9/21/2021		<0.001	<0.001		
9/22/2021	<0.001			<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2024	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2024	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

FIGURE G.

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		2.07	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.009036**	**0.007618**	**0.004**	**Yes**	**22**	**0.008327**	**0.001321**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.0627**	**0.04122**	**0.006**	**Yes**	**22**	**0.05196**	**0.02001**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2401**	**0.1832**	**0.006**	**Yes**	**21**	**0.2116**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	21	0.0029	0.0004583	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0016	0.006	No	21	0.002573	0.0009279	80.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	21	0.002762	0.0007526	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	21	0.00279	0.0006625	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.0033	0.01	No	21	0.004296	0.001575	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.00516	0.00262	0.01	No	22	0.004396	0.001485	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	21	0.004354	0.001621	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	21	0.004388	0.001538	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.003	0.01	No	21	0.004267	0.001623	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.002956	0.001735	0.01	No	21	0.003224	0.001523	23.81	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.005	0.00388	0.01	No	7	0.00484	0.0004233	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.005	0.00368	0.01	No	4	0.00467	0.00066	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	PZ-70I	0.005	0.00366	0.01	No	5	0.004732	0.0005993	80	Kaplan-Meier	No	0.031	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04515	0.04004	2	No	21	0.0426	0.004626	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0248	0.02	2	No	22	0.02633	0.01007	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.03184	0.02501	2	No	21	0.02864	0.006462	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.04995	0.03407	2	No	21	0.04402	0.01867	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-36S	0.04044	0.02983	2	No	21	0.03556	0.0105	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02546	0.02364	2	No	21	0.02455	0.001647	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0239	0.015	2	No	21	0.02022	0.009067	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.14	0.0499	2	No	7	0.07117	0.03186	0	None	No	0.008	NP (normality)
Barium (mg/L)	PZ-52D	0.01958	0.01412	2	No	4	0.01685	0.001201	0	None	No	0.01	Param.
Barium (mg/L)	PZ-53D	0.05647	0.04833	2	No	5	0.0524	0.002431	0	None	No	0.01	Param.
Barium (mg/L)	PZ-70I	0.0444	0.0196	2	No	5	0.0259	0.01057	0	None	No	0.031	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.002062	0.001651	0.004	No	22	0.001856	0.0003824	4.545	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.000205	0.00013	0.004	No	21	0.0002299	0.0001575	23.81	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00021	0.00012	0.004	No	21	0.0002252	0.0001604	23.81	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.0005	0.00009	0.004	No	22	0.0002595	0.0002049	40.91	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.009036**	**0.007618**	**0.004**	**Yes**	**22**	**0.008327**	**0.001321**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.0004685	0.0002875	0.004	No	7	0.000378	0.00007616	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-70I	0.0003939	0.0002191	0.004	No	5	0.0003452	0.000101	20	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0005192	0.0003465	0.005	No	22	0.0004329	0.0001608	4.545	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.0003641	0.000183	0.005	No	21	0.0005332	0.0003571	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	BRGWC-36S	0.001	0.0001	0.005	No	22	0.0009173	0.0002678	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005763	0.0004582	0.005	No	21	0.0005172	0.000107	4.762	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.001	0.00011	0.005	No	7	0.0008729	0.0003364	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.01232	0.01007	0.1	No	21	0.01126	0.002158	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.01	0.00049	0.1	No	22	0.009568	0.002028	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006421	0.004664	0.1	No	21	0.005542	0.001592	4.762	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.008023	0.006976	0.1	No	21	0.0075	0.0009489	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.01	0.0014	0.1	No	21	0.004743	0.004229	38.1	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004016	0.003375	0.1	No	21	0.003648	0.0006885	0	None	x^2	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02171	0.01009	0.1	No	7	0.0159	0.004894	0	None	No	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.0627**	**0.04122**	**0.006**	**Yes**	**22**	**0.05196**	**0.02001**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.004777	0.003515	0.006	No	21	0.004218	0.001272	4.762	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0012	0.0008	0.006	No	21	0.001	0.0003619	76.19	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2401**	**0.1832**	**0.006**	**Yes**	**21**	**0.2116**	**0.05155**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.001	0.00037	0.006	No	7	0.00091	0.0002381	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	PZ-52D	0.002657	0	0.006	No	5	0.001135	0.0009084	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-70I	0.0056	0.000682	0.006	No	5	0.001724	0.002168	0	None	No	0.031	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	1.005	0.4346	5	No	21	0.7199	0.5171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.683	0.7636	5	No	21	1.223	0.8332	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.391	0.8114	5	No	21	1.142	0.613	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.565	0.6026	5	No	21	1.204	1.005	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	1.851	0.8135	5	No	21	1.444	1.139	0	None	sqrt(x)	0.01	Param.

Confidence Interval Summary Table - All Results

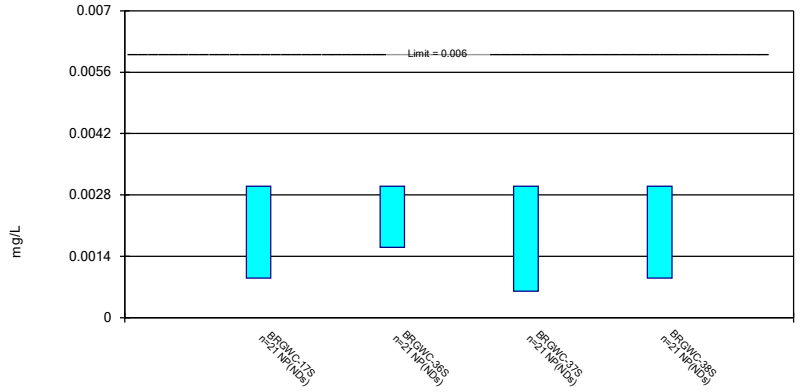
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/18/2024, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	1.083	0.4672	5	No	21	0.8428	0.6157	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.617	2.042	5	No	21	2.949	1.557	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	4.207	0.03982	5	No	7	2.124	1.754	14.29	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	5.39	1.14	5	No	4	3.603	2.114	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-53D	4.167	2.073	5	No	5	3.12	0.6249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-70I	4.35	1.25	5	No	5	2.106	1.27	0	None	No	0.031	NP (normality)
Fluoride (mg/L)	BRGWC-17S	0.1949	0.09919	4	No	22	0.1563	0.1046	4.545	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2153	0.1184	4	No	23	0.1758	0.1018	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1372	0.08244	4	No	22	0.1204	0.07483	4.545	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.1332	0.06337	4	No	22	0.1185	0.09687	13.64	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-36S	0.1558	0.05696	4	No	22	0.1301	0.1055	40.91	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.1	0.059	4	No	22	0.08183	0.0276	36.36	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-38S	0.9108	0.675	4	No	22	0.7929	0.2196	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.1648	0.04415	4	No	7	0.1114	0.05361	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-52D	2.144	0.838	4	No	5	1.59	0.8123	0	None	x^5	0.01	Param.
Fluoride (mg/L)	PZ-53D	0.3691	0.04531	4	No	5	0.2072	0.09661	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-70I	1.43	0.1	4	No	5	0.3934	0.5821	40	None	No	0.031	NP (normality)
Lead (mg/L)	BRGWC-17S	0.002	0.0001	0.015	No	21	0.001817	0.0005785	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.002	0.000088	0.015	No	22	0.0009671	0.0009658	45.45	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.002	0.0003	0.015	No	21	0.001738	0.0006596	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.002	0.0002	0.015	No	21	0.001644	0.0007527	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.002	0.000047	0.015	No	21	0.001907	0.0004262	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.002	0.0001	0.015	No	21	0.001819	0.0005715	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.002	0.00035	0.015	No	21	0.0009286	0.0007779	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.002	0.00035	0.015	No	7	0.001764	0.0006236	85.71	None	No	0.008	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.01	0.001	0.089	No	21	0.006993	0.004358	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01045	0.009382	0.089	No	22	0.009917	0.0009973	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.01	0.0009	0.089	No	21	0.00739	0.004228	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	21	0.00401	0.003432	23.81	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.01	0.0024	0.089	No	21	0.00461	0.003495	28.57	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02234	0.02035	0.089	No	21	0.02134	0.001808	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.01	0.001	0.089	No	7	0.007529	0.004226	71.43	None	No	0.008	NP (NDs)
Lithium (mg/L)	PZ-52D	0.01985	0.01485	0.089	No	4	0.01735	0.001103	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-53D	0.02091	0.01649	0.089	No	5	0.0187	0.001317	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-70I	0.00615	0.00381	0.089	No	5	0.004296	0.001037	0	None	No	0.031	NP (normality)
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	19	0.0001813	0.00004496	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	20	0.0001815	0.00004705	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00015	0.002	No	19	0.0001779	0.00004837	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	19	0.0001847	0.00003762	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	19	0.0001842	0.00003878	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	19	0.0001847	0.00003864	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0002	0.000085	0.002	No	19	0.0001488	0.00005061	26.32	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-70I	0.00309	0	0.002	No	5	0.001224	0.001245	40	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.02736	0.002902	0.1	No	4	0.01513	0.005386	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-53D	0.002697	0.001743	0.1	No	5	0.00222	0.0002848	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-70I	0.00142	0.001	0.1	No	5	0.001084	0.0001878	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	BRGWC-17S	0.002589	0.001895	0.05	No	21	0.002864	0.001225	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.00572	0.0032	0.05	No	22	0.005665	0.004963	40.91	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.004466	0.002613	0.05	No	21	0.003671	0.001846	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.03859	0.02876	0.05	No	21	0.03368	0.008915	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003208	0.001655	0.05	No	7	0.002431	0.0006537	14.29	None	No	0.01	Param.
Selenium (mg/L)	PZ-70I	0.009655	0.005765	0.05	No	5	0.00771	0.001161	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.001	0.000066	0.002	No	21	0.0009555	0.0002038	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.001	0.00019	0.002	No	22	0.0004514	0.000384	31.82	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.001	0.0002	0.002	No	21	0.0005681	0.0003867	42.86	None	No	0.01	NP (normality)

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

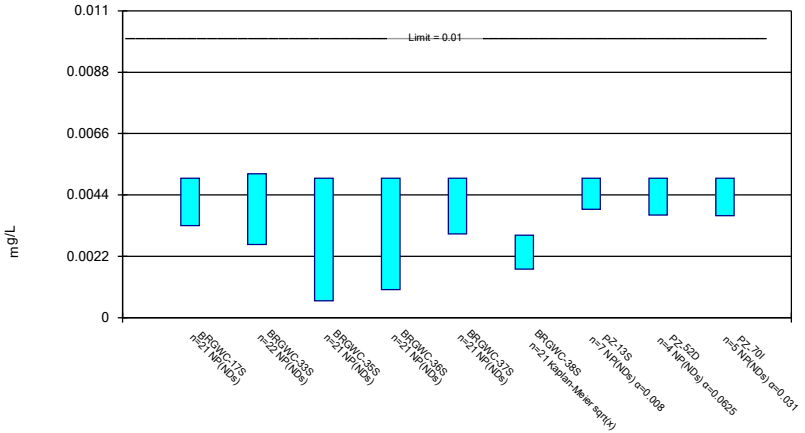


Constituent: Antimony Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

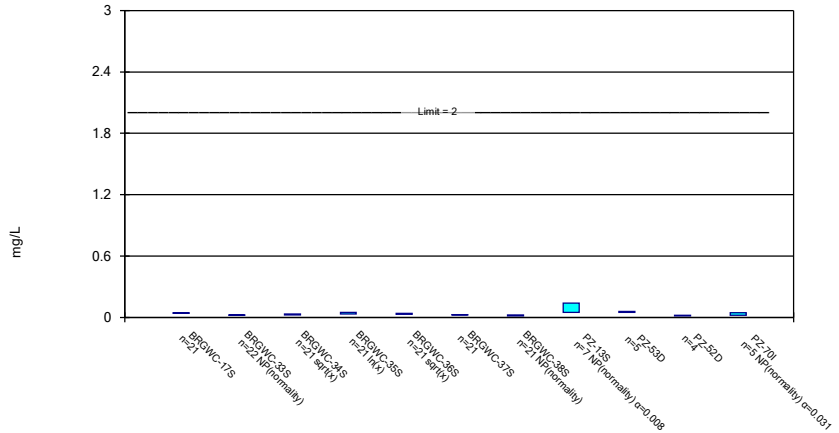


Constituent: Arsenic Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

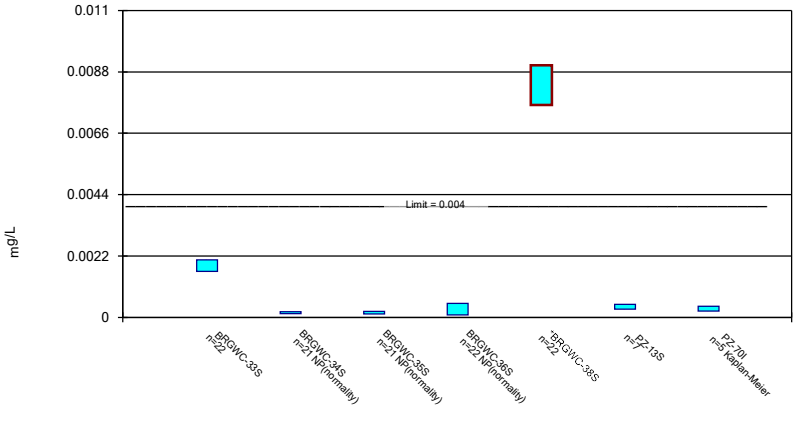


Constituent: Barium Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

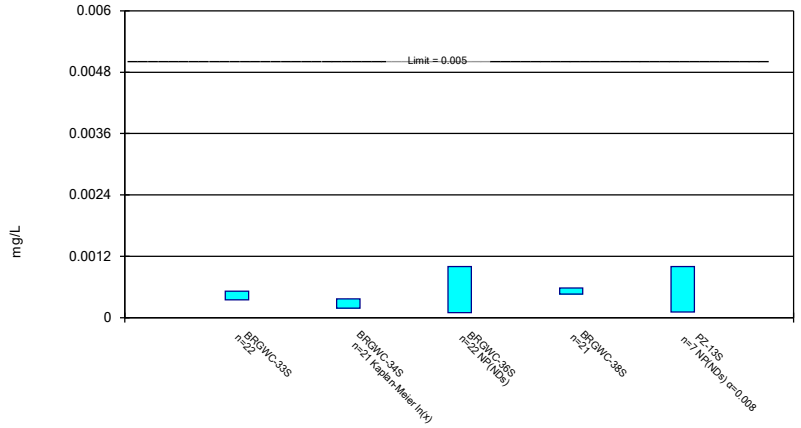


Constituent: Beryllium Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

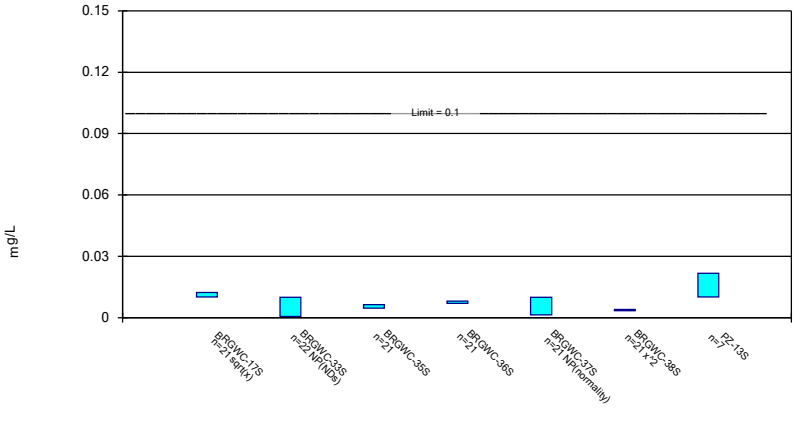


Constituent: Cadmium Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

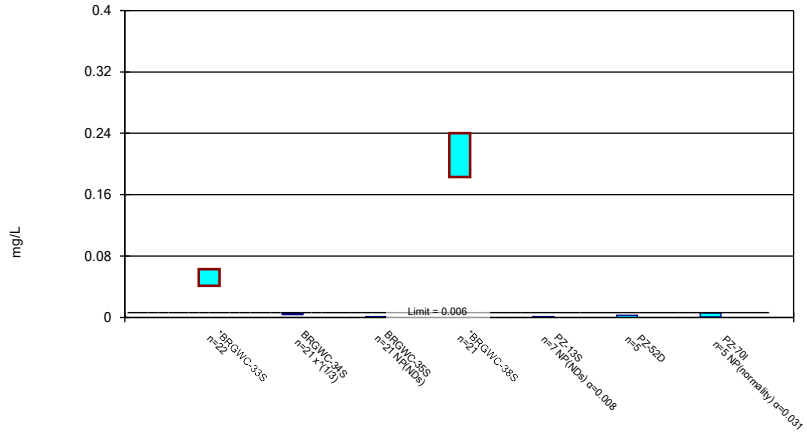


Constituent: Chromium Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

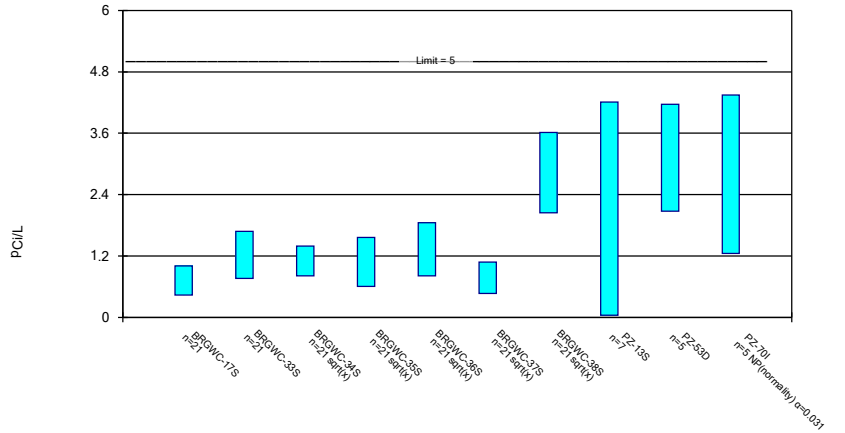


Constituent: Cobalt Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

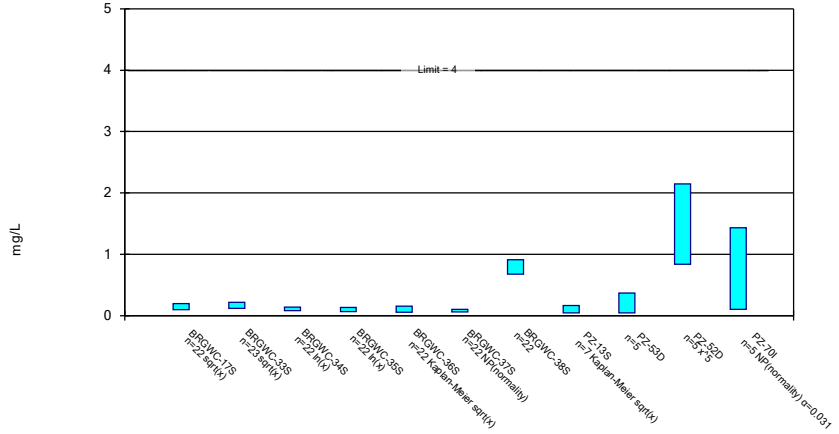


Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

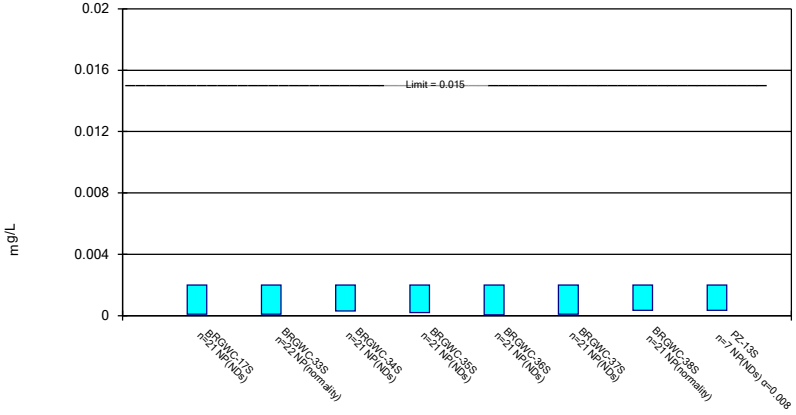


Constituent: Fluoride Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

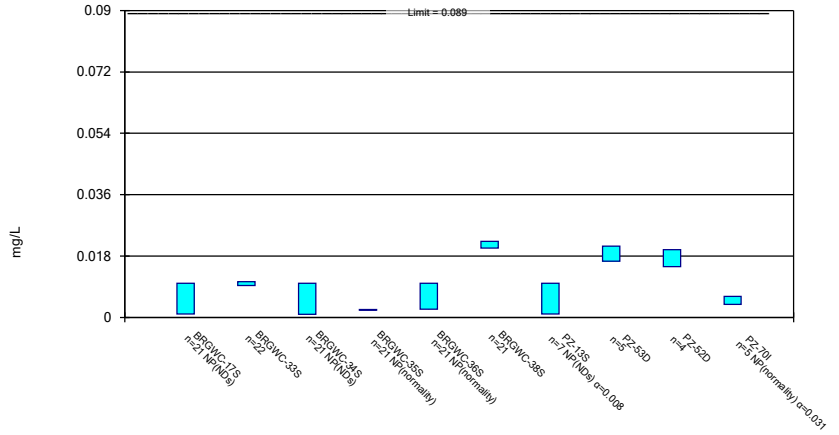


Constituent: Lead Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

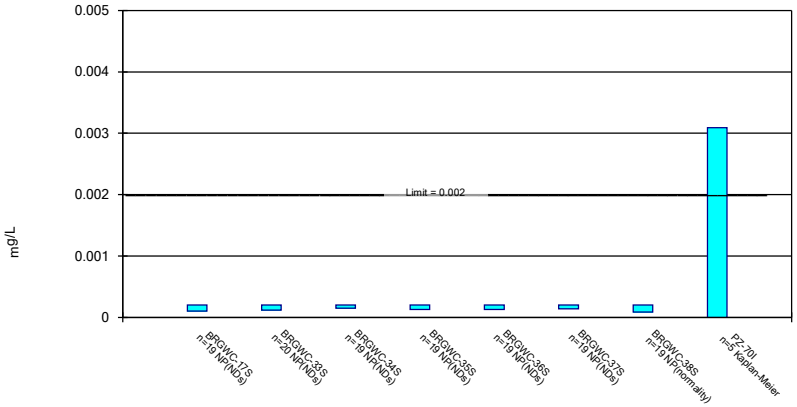


Constituent: Lithium Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

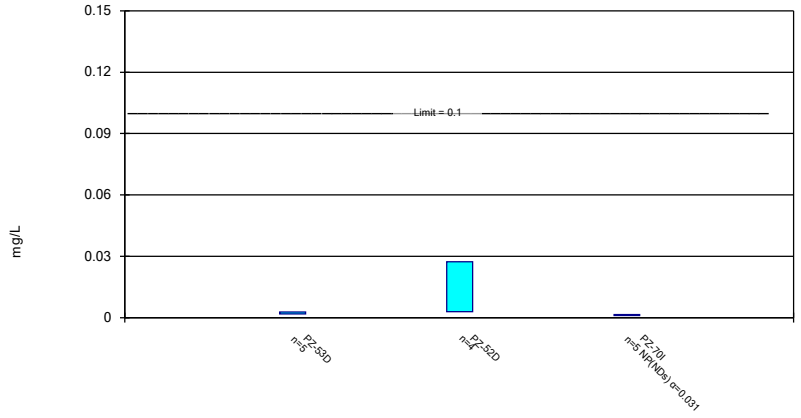


Constituent: Mercury Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

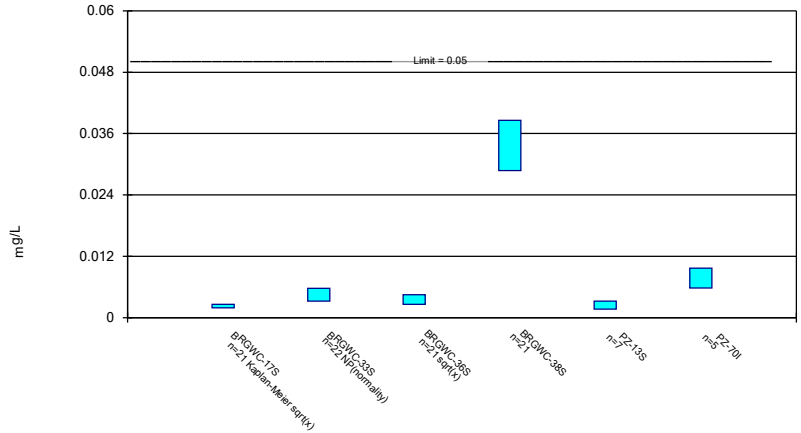


Constituent: Molybdenum Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

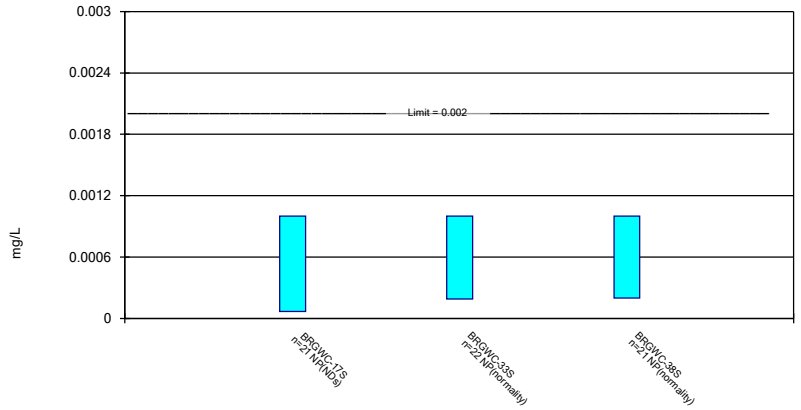


Constituent: Selenium Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

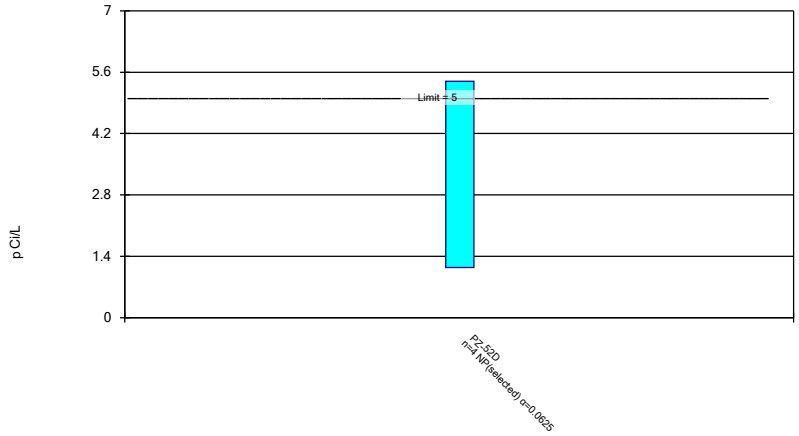


Constituent: Thallium Analysis Run 11/18/2024 11:02 AM View: Pond E - Confidence Intervals
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2024 11:05 AM View: Pond E - Nonparame

Plant Branch Client: Southern Company Data: Plant Branch AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.003	<0.003		<0.003
11/17/2016	<0.003			
11/18/2016		0.0016 (J)		
11/21/2016				0.0009 (J)
2/22/2017	<0.003			
2/23/2017		<0.003	<0.003	<0.003
4/17/2017			0.0004 (J)	
5/15/2017			<0.003	
6/15/2017	0.0009 (J)	0.0006 (J)	0.0006 (J)	0.0007 (J)
9/28/2017	<0.003	<0.003	<0.003	<0.003
2/15/2018	<0.003	<0.003	<0.003	<0.003
6/27/2018	<0.003			
6/28/2018		<0.003	<0.003	<0.003
12/19/2018	<0.003	<0.003	<0.003	
12/20/2018				<0.003
8/28/2019	<0.003	0.00035 (J)	<0.003	
8/29/2019				<0.003
10/16/2019			<0.003	<0.003
12/3/2019	<0.003	0.00049 (J)		
3/3/2020	<0.003			
3/5/2020		<0.003	<0.003	<0.003
8/19/2020	<0.003	<0.003	<0.003	<0.003
9/16/2020	<0.003	<0.003	<0.003	
9/17/2020				<0.003
3/3/2021		<0.003	<0.003	
3/4/2021	<0.003			<0.003
9/22/2021	<0.003	<0.003		
9/23/2021			<0.003	<0.003
2/1/2022	<0.003	<0.003		<0.003
2/2/2022			<0.003	
8/23/2022			<0.003	<0.003
8/24/2022	<0.003	<0.003		
1/24/2023	<0.003			
1/25/2023		<0.003	<0.003	<0.003
8/31/2023			<0.003	
9/6/2023	<0.003	<0.003		<0.003
2/10/2024	<0.003			
2/13/2024		<0.003	<0.003	<0.003
8/27/2024			<0.003	<0.003
8/28/2024	<0.003	<0.003		
Mean	0.0029	0.002573	0.002762	0.00279
Std. Dev.	0.0004583	0.0009279	0.0007526	0.0006625
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0009	0.0016	0.0006	0.0009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-70I
9/7/2016	<0.005	<0.005	<0.005	<0.005		0.0026 (J)			
11/17/2016	<0.005	<0.005	<0.005						
11/18/2016				<0.005					
11/21/2016						0.0034 (J)			
2/22/2017	<0.005	<0.005	<0.005						
2/23/2017				<0.005	<0.005	0.003 (J)			
4/17/2017					<0.005				
5/15/2017					<0.005				
6/14/2017		0.0006 (J)							
6/15/2017	0.0006 (J)		0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)			
9/27/2017		<0.005							
9/28/2017	<0.005		<0.005	<0.005	<0.005	0.0046 (J)			
2/15/2018	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)			
6/27/2018	<0.005	<0.005	<0.005						
6/28/2018				<0.005 (X)	<0.005 (X)	<0.005 (X)			
12/18/2018		<0.005 (X)							
12/19/2018	<0.005		<0.005	<0.005	<0.005				
12/20/2018						0.00098 (J)			
1/15/2019							<0.005		
8/27/2019		<0.005							
8/28/2019	0.00073 (J)	<0.005	0.00044 (J)	0.00045 (J)	0.00038 (J)				
8/29/2019						0.0013 (J)			
10/16/2019		0.00056 (J)	0.0004 (J)		0.00078 (J)	0.0024 (J)			
10/22/2019							<0.005		
12/3/2019	0.00058 (J)			0.001 (J)					
3/3/2020	0.0033 (J)								
3/5/2020		<0.005	<0.005	<0.005	0.00044 (J)	0.0011 (J)			
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)			
9/16/2020	<0.005	<0.005	<0.005	<0.005	<0.005				
9/17/2020						0.0015 (J)			
3/3/2021		<0.005		<0.005	<0.005				
3/4/2021	<0.005		<0.005			0.0029 (J)			
9/22/2021	<0.005	<0.005		<0.005					
9/23/2021			<0.005		<0.005	0.002 (J)			
2/1/2022	<0.005	<0.005	<0.005	<0.005		<0.005			
2/2/2022					<0.005				
8/23/2022		0.00262 (J)			<0.005	0.00337 (J)	<0.005		
8/24/2022	<0.005		<0.005	<0.005					
9/1/2022									<0.005
1/24/2023	<0.005	0.00201 (J)	<0.005						
1/25/2023				<0.005	0.003 (J)	0.00486 (J)		0.00368 (J)	
1/26/2023							0.00388 (J)		0.00366 (J)
8/31/2023		<0.005			<0.005		<0.005		
9/6/2023	<0.005		<0.005	<0.005		<0.005		<0.005	<0.005
2/10/2024	<0.005		<0.005				<0.005		
2/13/2024		0.00516		<0.005	<0.005	<0.005		<0.005	<0.005
8/27/2024					<0.005	<0.005	<0.005		
8/28/2024	<0.005	0.00577	<0.005	<0.005				<0.005	<0.005
Mean	0.004296	0.004396	0.004354	0.004388	0.004267	0.003224	0.00484	0.00467	0.004732
Std. Dev.	0.001575	0.001485	0.001621	0.001538	0.001623	0.001523	0.0004233	0.00066	0.0005993
Upper Lim.	0.005	0.00516	0.005	0.005	0.005	0.002956	0.005	0.005	0.005
Lower Lim.	0.0033	0.00262	0.0006	0.001	0.003	0.001735	0.00388	0.00368	0.00366

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D
9/7/2016	0.0377	0.0214		0.101	0.0674		0.044		
9/8/2016			0.0415						
11/17/2016	0.0405	0.0211	0.04	0.0808					
11/18/2016					0.0546				
11/21/2016							0.0428 (J)		
2/22/2017	0.0392	0.0243	0.0415	0.0701					
2/23/2017					0.0489	0.0229	0.0338		
4/17/2017						0.0227			
5/15/2017						0.0227			
6/14/2017		0.0218	0.0341						
6/15/2017	0.0364			0.0518	0.0415	0.0218	0.0239		
9/27/2017		0.0219	0.0347						
9/28/2017	0.0408			0.047	0.0397	0.0222	0.0247		
2/15/2018	0.0396	0.0248	0.0346	0.0485	0.038	0.0243	0.0215		
6/27/2018	0.041	0.023	0.028	0.046					
6/28/2018					0.035	0.023	0.018		
12/18/2018		0.023	0.029						
12/19/2018	0.038			0.04	0.035	0.024			
12/20/2018							0.017		
1/15/2019								0.14	
8/27/2019		0.02							
8/28/2019	0.044	0.02	0.026	0.039	0.034	0.027			
8/29/2019							0.016		
10/16/2019		0.019	0.022	0.037		0.024	0.015		
10/22/2019								0.077	
12/3/2019	0.043				0.031				
3/3/2020	0.036								
3/5/2020		0.022	0.025	0.039	0.033	0.025	0.016		
8/19/2020	0.047	0.02	0.024	0.04	0.037	0.026	0.016		
9/16/2020	0.044	0.019	0.023	0.033	0.03	0.024			
9/17/2020							0.014		
3/3/2021		0.02	0.024		0.031	0.024			
3/4/2021	0.039			0.034			0.015		
9/22/2021	0.043	0.019	0.021		0.028				
9/23/2021				0.036		0.027	0.014		
2/1/2022	0.045	0.023	0.024	0.033	0.029		0.015		
2/2/2022						0.025			
8/23/2022		0.0409				0.026	0.0141	0.0562	0.0547
8/24/2022	0.0512		0.0249	0.0339	0.0296				
9/1/2022									
1/24/2023	0.0422	0.0368	0.0232	0.0291					
1/25/2023					0.0278	0.0247	0.018		0.0536
1/26/2023								0.0525	
8/31/2023		0.0357	0.0268			0.0266		0.0683	
9/6/2023	0.0445			0.0286	0.0243		0.0134		0.0485
2/10/2024	0.0522			0.0299				0.0499	
2/13/2024		0.0515	0.0261		0.0273	0.0256	0.016		0.0517
8/27/2024						0.027	0.0164	0.0543	0.0535
8/28/2024	0.0502	0.0511	0.0281	0.0267	0.0247				
Mean	0.0426	0.02633	0.02864	0.04402	0.03556	0.02455	0.02022	0.07117	0.0524
Std. Dev.	0.004626	0.01007	0.006462	0.01867	0.0105	0.001647	0.009067	0.03186	0.002431
Upper Lim.	0.04515	0.0248	0.03184	0.04995	0.04044	0.02546	0.0239	0.14	0.05647

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D
Lower Lim.	0.04004	0.02	0.02501	0.03407	0.02983	0.02364	0.015	0.0499	0.04833

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-52D	PZ-70I
9/7/2016		
9/8/2016		
11/17/2016		
11/18/2016		
11/21/2016		
2/22/2017		
2/23/2017		
4/17/2017		
5/15/2017		
6/14/2017		
6/15/2017		
9/27/2017		
9/28/2017		
2/15/2018		
6/27/2018		
6/28/2018		
12/18/2018		
12/19/2018		
12/20/2018		
1/15/2019		
8/27/2019		
8/28/2019		
8/29/2019		
10/16/2019		
10/22/2019		
12/3/2019		
3/3/2020		
3/5/2020		
8/19/2020		
9/16/2020		
9/17/2020		
3/3/2021		
3/4/2021		
9/22/2021		
9/23/2021		
2/1/2022		
2/2/2022		
8/23/2022		
8/24/2022		
9/1/2022		0.0444
1/24/2023		
1/25/2023	0.0171	
1/26/2023		0.025
8/31/2023		
9/6/2023	0.0163	0.0196
2/10/2024		
2/13/2024	0.0184	0.0207
8/27/2024		
8/28/2024	0.0156	0.0198
Mean	0.01685	0.0259
Std. Dev.	0.001201	0.01057
Upper Lim.	0.01958	0.0444

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-52D	PZ-70I
Lower Lim.	0.01412	0.0196

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-70I
9/7/2016	0.0019 (J)		9E-05 (J)	<0.0005	0.0079		
9/8/2016		0.0001 (J)					
9/23/2016					0.0096 (R)		
11/17/2016	0.002 (J)	0.0001 (J)	0.0001 (J)				
11/18/2016				0.0001 (J)			
11/21/2016					0.0092		
2/22/2017	0.0022 (J)	0.0002 (J)	0.0001 (J)				
2/23/2017				0.0001 (J)	0.01		
6/14/2017	0.0019 (J)	<0.0005					
6/15/2017			0.0001 (J)	9E-05 (J)	0.0104		
9/27/2017	0.0017 (J)	0.0001 (J)					
9/28/2017			0.0001 (J)	0.0001 (J)	0.0098		
2/15/2018	<0.003	<0.0005	<0.0005	<0.0005	0.011 (J)		
6/27/2018	0.002 (J)	0.00013 (J)	0.00015 (J)				
6/28/2018				8.1E-05 (J)	0.0085		
12/18/2018	0.0021 (J)	0.00012 (J)					
12/19/2018			<0.0005 (X)	<0.0005 (X)			
12/20/2018					0.0092		
1/15/2019						0.0005 (J)	
8/27/2019	0.0019 (J)						
8/28/2019	0.0019 (J)	0.00014 (J)	0.00016 (J)	0.00011 (J)			
8/29/2019					0.0088		
10/16/2019	0.0018 (J)	0.00014 (J)	0.00015 (J)		0.0079		
10/17/2019				<0.0005			
10/22/2019						0.0004 (J)	
12/3/2019				9.7E-05 (J)			
3/5/2020	0.0018 (J)	0.00015 (J)	0.00015 (J)	9.2E-05 (J)	0.0082		
8/19/2020	0.0014 (J)	0.00015 (J)	0.00015 (J)	0.00011 (J)	0.0079		
9/16/2020	0.0015 (J)	0.00014 (J)	0.00014 (J)	8E-05 (J)			
9/17/2020					0.0073		
3/3/2021	0.0013	0.00015 (J)		7.9E-05 (J)			
3/4/2021			0.00012 (J)		0.0077		
9/22/2021	0.0012	0.00015 (J)		8.4E-05 (J)			
9/23/2021			0.00016 (J)		0.0071		
2/1/2022	0.0013	0.00015 (J)	0.00015 (J)	8.7E-05 (J)	0.0072		
8/23/2022	0.00241				0.00854	0.000331 (J)	
8/24/2022		<0.0005	0.00021 (J)	<0.0005			
9/1/2022							<0.0005
1/24/2023	0.00235	<0.0005	<0.0005				
1/25/2023				<0.0005	0.0078		
1/26/2023						0.000422 (J)	0.000217 (J)
8/31/2023	0.0019	<0.0005				0.000259 (J)	
9/6/2023			0.0002 (J)	<0.0005			
9/7/2023					0.0068		0.000325 (J)
2/10/2024			<0.0005			0.000388 (J)	
2/13/2024	0.00269	0.000202 (J)		<0.0005	0.00591		0.00034 (J)
8/27/2024					0.00644	0.000346 (J)	
8/28/2024	0.00209	0.000205 (J)	<0.0005	<0.0005			0.000344 (J)
Mean	0.001856	0.0002299	0.0002252	0.0002595	0.008327	0.000378	0.0003452
Std. Dev.	0.0003824	0.0001575	0.0001604	0.0002049	0.001321	7.616E-05	0.000101
Upper Lim.	0.002062	0.000205	0.00021	0.0005	0.009036	0.0004685	0.0003939
Lower Lim.	0.001651	0.00013	0.00012	9E-05	0.007618	0.0002875	0.0002191

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-36S	BRGWC-38S	PZ-13S
9/7/2016	0.0005 (J)		8E-05 (J)	0.0004 (J)	
9/8/2016		<0.001			
11/17/2016	0.0005 (J)	0.0009 (J)			
11/18/2016			<0.001		
11/21/2016				0.0005 (J)	
2/22/2017	0.0006 (J)	0.0005 (J)			
2/23/2017			0.0001 (J)	0.0007 (J)	
6/14/2017	0.0004 (J)	0.0004 (J)			
6/15/2017			<0.001	0.0006 (J)	
9/27/2017	0.0004 (J)	0.0007 (J)			
9/28/2017			<0.001	0.0007 (J)	
2/15/2018	<0.001	<0.001	<0.001	0.00069 (J)	
6/27/2018	0.00038 (J)	0.00017 (J)			
6/28/2018			<0.001	0.00056 (J)	
12/18/2018	0.00046 (J)	0.00023 (J)			
12/19/2018			<0.001 (X)		
12/20/2018				<0.001 (X)	
1/15/2019					0.00011 (J)
8/27/2019	0.00032 (J)				
8/28/2019	0.00032 (J)	0.00025 (J)	<0.001		
8/29/2019				0.00053 (J)	
10/16/2019	0.00039 (J)	0.0004 (J)		0.00057 (J)	
10/17/2019			<0.001		
10/22/2019					<0.001
12/3/2019			<0.001		
3/5/2020	0.00038 (J)	0.00018 (J)	<0.001	0.00059 (J)	
8/19/2020	0.00029 (J)	0.00018 (J)	<0.001	0.00056 (J)	
9/16/2020	0.00032 (J)	0.00017 (J)	<0.001		
9/17/2020				0.0005 (J)	
3/3/2021	0.00022 (J)	0.00015 (J)	<0.001		
3/4/2021				0.00042 (J)	
9/22/2021	0.00019 (J)	0.00033 (J)	<0.001		
9/23/2021				0.00048 (J)	
2/1/2022	0.00023 (J)	0.00012 (J)	<0.001	0.00058	
8/23/2022	0.000509 (J)			0.000459 (J)	<0.001
8/24/2022		0.000517 (J)	<0.001		
1/24/2023	0.000482 (J)	<0.001			
1/25/2023			<0.001	0.00043 (J)	
1/26/2023					<0.001
8/31/2023	0.000533 (J)	<0.001			<0.001
9/6/2023			<0.001	0.00041 (J)	
2/10/2024					<0.001
2/13/2024	0.000792 (J)	<0.001	<0.001	0.000342 (J)	
8/27/2024				0.000341 (J)	<0.001
8/28/2024	0.000807 (J)	<0.001	<0.001		
Mean	0.0004329	0.0005332	0.0009173	0.0005172	0.0008729
Std. Dev.	0.0001608	0.0003571	0.0002678	0.000107	0.0003364
Upper Lim.	0.0005192	0.0003641	0.001	0.0005763	0.001
Lower Lim.	0.0003465	0.000183	0.0001	0.0004582	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	0.01 (J)	<0.01	0.0019 (J)	0.0073 (J)		0.0014 (J)	
11/17/2016	0.0185	<0.01	0.0024 (J)				
11/18/2016				0.008 (J)			
11/21/2016						0.003 (J)	
2/22/2017	0.0122	<0.01	0.004 (J)				
2/23/2017				0.0086 (J)	0.001 (J)	0.0028 (J)	
4/17/2017					0.0018 (J)		
5/15/2017					0.0014 (J)		
6/14/2017		<0.01					
6/15/2017	0.0117		0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)	
9/27/2017		<0.01					
9/28/2017	0.0114		0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)	
2/15/2018	0.011	<0.01	<0.01	0.0086 (J)	<0.01	0.0044 (J)	
6/27/2018	0.0098 (J)	<0.01	0.0062 (J)				
6/28/2018				0.0076 (J)	<0.01	0.0041 (J)	
12/18/2018		<0.01					
12/19/2018	0.0095 (J)		0.0073 (J)	0.0085 (J)	<0.01		
12/20/2018						0.0041 (J)	
1/15/2019							0.025
8/27/2019		<0.01					
8/28/2019	0.013	<0.01	0.0071 (J)	0.0078 (J)	0.0017 (J)		
8/29/2019						0.0044 (J)	
10/16/2019		0.00049 (J)	0.0064 (J)		0.0014 (J)	0.0038 (J)	
10/22/2019							0.02
12/3/2019	0.011			0.007 (J)			
3/3/2020	0.0081 (J)						
3/5/2020		<0.01	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)	
8/19/2020	0.012	<0.01	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)	
9/16/2020	0.012	<0.01	0.0058 (J)	0.0064 (J)	0.0018 (J)		
9/17/2020						0.0042 (J)	
3/3/2021		<0.01		0.0067	0.0014 (J)		
3/4/2021	0.01		0.0053			0.004 (J)	
9/22/2021	0.0091	<0.01		0.0065			
9/23/2021			0.0065		0.0016 (J)	0.004 (J)	
2/1/2022	0.013	<0.01	0.0056	0.0068		0.0035 (J)	
2/2/2022					0.0015 (J)		
8/23/2022		<0.01			<0.01	0.00398 (J)	0.0128
8/24/2022	0.0127		0.00752 (J)	0.00713 (J)			
1/24/2023	0.00886 (J)	<0.01	0.00524 (J)				
1/25/2023				0.00682 (J)	<0.01	0.00362 (J)	
1/26/2023							0.0153
8/31/2023		<0.01			<0.01		0.0111
9/6/2023	0.0115		0.00592 (J)	0.00649 (J)		0.00338 (J)	
2/10/2024	0.011		0.0059 (J)				0.0134
2/13/2024		<0.01		0.00648 (J)	<0.01	0.00305 (J)	
8/27/2024					<0.01	0.00328 (J)	0.0137
8/28/2024	0.0101	<0.01	0.00491 (J)	0.00617 (J)			
Mean	0.01126	0.009568	0.005542	0.0075	0.004743	0.003648	0.0159
Std. Dev.	0.002158	0.002028	0.001592	0.0009489	0.004229	0.0006885	0.004894
Upper Lim.	0.01232	0.01	0.006421	0.008023	0.01	0.004016	0.02171
Lower Lim.	0.01007	0.00049	0.004664	0.006976	0.0014	0.003375	0.01009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-38S	PZ-13S	PZ-52D	PZ-70I
9/7/2016	0.0612		0.0023 (J)	0.236			
9/8/2016		0.0029 (J)					
11/17/2016	0.0551	0.0028 (J)	0.0012 (J)				
11/21/2016				0.298			
2/22/2017	0.0567	0.0041 (J)	0.0008 (J)				
2/23/2017				0.277			
6/14/2017	0.0557	0.0036 (J)					
6/15/2017			0.0004 (J)	0.262			
9/27/2017	0.049	0.0028 (J)					
9/28/2017			0.0003 (J)	0.279			
2/15/2018	0.0536	<0.01	<0.001	0.279			
6/27/2018	0.054	0.0041 (J)	<0.001				
6/28/2018				0.23			
12/18/2018	0.049	0.0032 (J)					
12/19/2018			<0.001				
12/20/2018				0.25			
1/15/2019					<0.001		
8/27/2019	0.045						
8/28/2019	0.045	0.0037 (J)	<0.001				
8/29/2019				0.21			
10/16/2019	0.042	0.0043 (J)	<0.001	0.21			
10/22/2019					0.00037 (J)		
3/5/2020	0.037	0.0031 (J)	<0.001	0.22			
8/19/2020	0.036	0.0041 (J)	<0.001	0.22			
9/16/2020	0.034	0.0042 (J)	<0.001				
9/17/2020				0.2			
3/3/2021	0.028	0.0046 (J)					
3/4/2021			<0.001	0.2			
9/22/2021	0.024	0.0075					
9/23/2021			<0.001	0.17			
2/1/2022	0.027	0.0044 (J)	<0.001	0.18			
8/23/2022	0.0639			0.173	<0.001		
8/24/2022		0.00438	<0.001				
9/1/2022						0.0015	0.0056
1/24/2023	0.0582	0.00351	<0.001				
1/25/2023				0.158		0.00249	
1/26/2023					<0.001		0.000682 (J)
8/31/2023	0.0659	0.00384			<0.001		
9/6/2023			<0.001	0.139		0.000307 (J)	0.000784 (J)
2/10/2024			<0.001		<0.001		
2/13/2024	0.0988	0.00751		0.134		0.00104	0.000866 (J)
8/27/2024				0.119	<0.001		
8/28/2024	0.104	0.00494	<0.001			0.000337 (J)	0.000686 (J)
Mean	0.05196	0.004218	0.001	0.2116	0.00091	0.001135	0.001724
Std. Dev.	0.02001	0.001272	0.0003619	0.05155	0.0002381	0.0009084	0.002168
Upper Lim.	0.0627	0.004777	0.0012	0.2401	0.001	0.002657	0.0056
Lower Lim.	0.04122	0.003515	0.0008	0.1832	0.00037	0	0.000682

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D
9/7/2016	1.18	0.541 (U)		0.189 (U)	0.638 (U)		0.816 (U)		
9/8/2016			0.998 (U)						
11/17/2016	0.145 (U)	1.02 (U)	0.613	0.729 (U)					
11/18/2016					1.22 (U)				
11/21/2016							2.94		
2/22/2017	0.0213 (U)	0.482 (U)	1.01 (U)	0.293 (U)					
2/23/2017					0.554 (U)	0.567 (U)	1.92		
4/17/2017						0.335 (U)			
5/15/2017						0.261 (U)			
6/14/2017		0.723 (U)	0.801 (U)						
6/15/2017	0.41 (U)			1.09	0.77 (U)	0.188 (U)	3.6		
9/27/2017		1.5	1.44						
9/28/2017	0.496 (U)			1.02 (U)	1.07 (U)	0.627 (U)	3.3		
2/15/2018	0.672 (U)	1.14 (U)	0.668 (U)	0.742 (U)	0.751 (U)	0.869 (U)	2.31 (J+X)		
6/27/2018	0.692 (U)	1.3 (U)	1.06 (U)	0.739 (U)					
6/28/2018					0.392 (U)	0.336 (U)	1.75 (UX)		
12/18/2018		1.64 (UX)	1.22						
12/19/2018	0.325 (U)			0.465 (U)	0.693 (U)	0.454 (U)			
12/20/2018							2.8 (J+X)		
1/15/2019								<0.983	
8/27/2019		1.38							
8/28/2019	0.24 (U)		0.811 (U)	0.995 (U)	0.866 (U)	0.809 (U)			
8/29/2019							3.68		
10/16/2019		1.16 (U)	0.561 (U)	1.69		0.815 (U)	2.66		
10/22/2019								0.631 (U)	
12/18/2019	1.16 (U)				1.91				
3/3/2020	0.756 (U)								
3/5/2020		0.683 (U)	0.792 (U)	0.858 (U)	1.3	0.791 (U)	2.21		
8/19/2020	0.985 (U)	1.14 (U)	1.21 (U)	0.162 (U)	1.4	0.582 (U)	3.17		
9/16/2020	0.478 (U)	0.195 (U)	0.72 (U)	1.25 (U)	1.17 (U)	0.844 (U)			
9/17/2020							2.92		
3/3/2021		0.708 (U)	1.12		0.307 (U)	1.12			
3/4/2021	0.38 (U)			0.461 (U)			1.99		
9/22/2021	0.734 (U)	0.382 (U)	0.91 (U)		0.808 (U)				
9/23/2021				0.394 (U)		0.078 (U)	1.4		
2/1/2022	0.503 (U)	0.583 (U)	0.535 (U)	0.672 (U)	1.61 (U)		7.64		
2/2/2022						0.654 (U)			
8/23/2022		1.94				2.37	3.12	1.83	3.04
8/24/2022	0.152		1.86	3.1	1.38				
9/1/2022									
1/24/2023	0.728 (U)	3.31 (U)	2.14 (U)	3.34					
1/25/2023					4.86	1.67 (U)	3.79		2.1 (U)
1/26/2023								4.77	
9/20/2023	1.92 (U)			3.33	3.87		5.98		
9/22/2023		0.521 (U)	1.06 (U)			0.578 (U)		0.823 (U)	
9/26/2023									3.67
2/27/2024	1.36			2.4				2.01	
2/28/2024		2.66	1.31 (U)		2.31	1.74	2.98		3.57
8/27/2024						2.01 (U)	0.945 (U)	4.31	3.22
8/28/2024	1.78 (U)	2.68	3.15	1.36 (U)	2.45				
Mean	0.7199	1.223	1.142	1.204	1.444	0.8428	2.949	2.124	3.12
Std. Dev.	0.5171	0.8332	0.613	1.005	1.139	0.6157	1.557	1.754	0.6249

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D
Upper Lim.	1.005	1.683	1.391	1.565	1.851	1.083	3.617	4.207	4.167
Lower Lim.	0.4346	0.7636	0.8114	0.6026	0.8135	0.4672	2.042	0.03982	2.073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-70I
9/7/2016	
9/8/2016	
11/17/2016	
11/18/2016	
11/21/2016	
2/22/2017	
2/23/2017	
4/17/2017	
5/15/2017	
6/14/2017	
6/15/2017	
9/27/2017	
9/28/2017	
2/15/2018	
6/27/2018	
6/28/2018	
12/18/2018	
12/19/2018	
12/20/2018	
1/15/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/16/2019	
10/22/2019	
12/18/2019	
3/3/2020	
3/5/2020	
8/19/2020	
9/16/2020	
9/17/2020	
3/3/2021	
3/4/2021	
9/22/2021	
9/23/2021	
2/1/2022	
2/2/2022	
8/23/2022	
8/24/2022	
9/1/2022	1.57
1/24/2023	
1/25/2023	
1/26/2023	1.81 (U)
9/20/2023	4.35
9/22/2023	
9/26/2023	
2/27/2024	
2/28/2024	1.55
8/27/2024	
8/28/2024	1.25 (U)
Mean	2.106
Std. Dev.	1.27

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-70I
Upper Lim.	4.35
Lower Lim.	1.25

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D
9/7/2016	0.22 (J)	0.19 (J)		0.34	0.18 (J)		0.66		
9/8/2016			0.17 (J)						
11/17/2016	0.12 (J)	0.12 (J)	0.06 (J)	0.14 (J)					
11/18/2016					0.03 (J)				
11/21/2016							0.9 (D)		
2/22/2017	0.11 (J)	0.21 (J)	0.17 (J)	0.09 (J)					
2/23/2017					0.07 (J)	0.1 (J)	0.75		
4/17/2017						0.08 (J)			
5/15/2017						0.02 (J)			
6/14/2017		0.18 (J)	0.1 (J)						
6/15/2017	0.05 (J)			0.03 (J)	0.01 (J)	0.03 (J)	0.77		
9/27/2017		0.42	0.4						
9/28/2017	0.05 (J)			<0.1	<0.1	<0.1	0.8		
2/15/2018	<0.3	0.42	<0.3	<0.1	<0.1	<0.1	0.82		
6/27/2018	0.093 (J)	0.32	0.21 (J)	0.22 (J)					
6/28/2018					0.51 (J+X)	<0.1	1.5 (J+X)		
12/18/2018		0.28 (J)	0.12 (J)						
12/19/2018	0.16 (J)			0.11 (J)	<0.1	0.094 (J)			
12/20/2018							0.68		
1/15/2019								0.06 (J)	
3/19/2019	0.1 (J)				<0.1				
3/20/2019		0.14 (J)	0.074 (J)	0.088 (J)		0.062 (J)	0.95		
8/27/2019		0.11 (J)							
8/28/2019	0.085 (J)	0.11 (J)	0.057 (J)	0.056 (J)	<0.1	<0.1			
8/29/2019							0.9		
10/16/2019		0.17 (J)	0.13 (J)	0.08 (J)		0.059 (J)	0.61		
10/22/2019								<0.1	
12/3/2019	0.2 (J)				0.15 (J)				
3/3/2020	0.093 (J)								
3/5/2020		0.088 (J)	0.072 (J)	0.067 (J)	<0.1	0.05 (J)	0.92		
8/19/2020	0.1	0.11	0.074 (J)	0.06 (J)	0.051 (J)	0.055 (J)	0.95		
9/16/2020	0.1	0.085 (J)	0.077 (J)	0.062 (J)	<0.1	<0.1			
9/17/2020							0.68		
3/3/2021		0.069 (J)	0.071 (J)		<0.1	<0.1			
3/4/2021	0.096 (J)			0.076 (J)			0.83		
9/22/2021	0.1	0.068 (J)	0.1		0.054 (J)				
9/23/2021				0.073 (J)		<0.1	0.85		
2/1/2022	0.079 (J)	0.053 (J)	0.06 (J)	0.055 (J)	<0.1		0.95		
2/2/2022						<0.1			
8/23/2022		0.187				0.105	0.609	0.128	0.164
8/24/2022	0.274		0.14	<0.1	0.194				
9/1/2022									
1/24/2023	0.216	0.193	0.122	0.239					
1/25/2023					0.183	0.114	0.708		0.282
1/26/2023								<0.1	
8/23/2023		0.123				0.0445 (J)		<0.1	
8/24/2023	0.484		0.0816 (J)	0.347			0.748		
8/25/2023					0.301				0.334
1/31/2024	0.34			0.263				0.222	
2/1/2024		0.194	0.101		0.144	0.109	0.493		
2/2/2024									0.153
8/27/2024						0.0777 (J)	0.366	0.0701 (J)	0.103

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-53D
8/28/2024	0.218	0.204	0.11	0.0609 (J)	0.0861 (J)				
Mean	0.1563	0.1758	0.1204	0.1185	0.1301	0.08183	0.7929	0.1114	0.2072
Std. Dev.	0.1046	0.1018	0.07483	0.09687	0.1055	0.0276	0.2196	0.05361	0.09661
Upper Lim.	0.1949	0.2153	0.1372	0.1332	0.1558	0.1	0.9108	0.1648	0.3691
Lower Lim.	0.09919	0.1184	0.08244	0.06337	0.05696	0.059	0.675	0.04415	0.04531

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-52D	PZ-70I
9/7/2016		
9/8/2016		
11/17/2016		
11/18/2016		
11/21/2016		
2/22/2017		
2/23/2017		
4/17/2017		
5/15/2017		
6/14/2017		
6/15/2017		
9/27/2017		
9/28/2017		
2/15/2018		
6/27/2018		
6/28/2018		
12/18/2018		
12/19/2018		
12/20/2018		
1/15/2019		
3/19/2019		
3/20/2019		
8/27/2019		
8/28/2019		
8/29/2019		
10/16/2019		
10/22/2019		
12/3/2019		
3/3/2020		
3/5/2020		
8/19/2020		
9/16/2020		
9/17/2020		
3/3/2021		
3/4/2021		
9/22/2021		
9/23/2021		
2/1/2022		
2/2/2022		
8/23/2022		
8/24/2022		
9/1/2022	0.14	1.43
1/24/2023		
1/25/2023		
1/26/2023	1.93	<0.1
8/23/2023		
8/24/2023	1.94	
8/25/2023		0.229
1/31/2024		
2/1/2024		
2/2/2024	1.9	0.108
8/27/2024		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-52D	PZ-70I
8/28/2024	2.04	<0.1
Mean	1.59	0.3934
Std. Dev.	0.8123	0.5821
Upper Lim.	2.144	1.43
Lower Lim.	0.838	0.1

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	<0.002	0.0002 (J)		0.0001 (J)	<0.002		0.0004 (J)	
9/8/2016			<0.002					
11/17/2016	0.0001 (J)	0.0002 (J)	0.0001 (J)	0.0002 (J)				
11/18/2016					<0.002			
11/21/2016							0.0005 (J)	
2/22/2017	<0.002	0.0001 (J)	0.0003 (J)	0.0001 (J)				
2/23/2017					<0.002	<0.002	0.0005 (J)	
4/17/2017						0.0001 (J)		
5/15/2017						<0.002		
6/14/2017		9E-05 (J)	<0.002					
6/15/2017	<0.002			<0.002	<0.002	<0.002	0.0004 (J)	
9/27/2017		7E-05 (J)	9E-05 (J)					
9/28/2017	<0.002			<0.002	<0.002	0.0001 (J)	0.0004 (J)	
2/15/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00047 (J)	
6/27/2018	<0.002	<0.002	<0.002	<0.002				
6/28/2018					<0.002	<0.002	0.00036 (J)	
12/18/2018		<0.002	<0.002					
12/19/2018	<0.002			<0.002	<0.002	<0.002		
12/20/2018							0.00039 (J)	
1/15/2019								<0.002
8/27/2019		0.00013 (J)						
8/28/2019	<0.002	0.00013 (J)	<0.002	<0.002	<0.002	<0.002		
8/29/2019							0.00035 (J)	
10/16/2019		8.8E-05 (J)	<0.002	<0.002		<0.002	0.00035 (J)	
10/22/2019								0.00035 (J)
12/3/2019	<0.002				<0.002			
3/3/2020	<0.002							
3/5/2020		8.7E-05 (J)	<0.002	<0.002	<0.002	<0.002	0.00041 (J)	
8/19/2020	<0.002	6E-05 (J)	<0.002	<0.002	4.7E-05 (J)	<0.002	0.00031 (J)	
9/16/2020	5.4E-05 (J)	6.3E-05 (J)	<0.002	0.00012 (J)	<0.002	<0.002		
9/17/2020							0.00032 (J)	
3/3/2021		5.8E-05 (J)	<0.002		<0.002	<0.002		
3/4/2021	<0.002			<0.002			0.00034 (J)	
9/22/2021	<0.002	<0.002	<0.002		<0.002			
9/23/2021				<0.002		<0.002	<0.002	
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
2/2/2022						<0.002		
8/23/2022		<0.002				<0.002	<0.002	<0.002
8/24/2022	<0.002		<0.002	<0.002	<0.002			
1/24/2023	<0.002	<0.002	<0.002	<0.002				
1/25/2023					<0.002	<0.002	<0.002	
1/26/2023								<0.002
8/31/2023		<0.002	<0.002			<0.002		<0.002
9/6/2023	<0.002			<0.002	<0.002		<0.002	
2/10/2024	<0.002			<0.002				<0.002
2/13/2024		<0.002	<0.002		<0.002	<0.002	<0.002	
8/27/2024						<0.002	<0.002	<0.002
8/28/2024	<0.002	<0.002	<0.002	<0.002	<0.002			
Mean	0.001817	0.0009671	0.001738	0.001644	0.001907	0.001819	0.0009286	0.001764
Std. Dev.	0.0005785	0.0009658	0.0006596	0.0007527	0.0004262	0.0005715	0.0007779	0.0006236
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0001	8.8E-05	0.0003	0.0002	4.7E-05	0.0001	0.00035	0.00035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-53D	PZ-52D
9/7/2016	<0.01	0.0092 (J)		0.0021 (J)	0.0024 (J)	0.0193 (J)			
9/8/2016			<0.01						
11/17/2016	<0.01	0.0097 (J)	<0.01	0.0022 (J)					
11/18/2016					0.0026 (J)				
11/21/2016						0.0223 (J)			
2/22/2017	<0.01	0.0106 (J)	<0.01	0.0023 (J)					
2/23/2017					0.0026 (J)	0.0229 (J)			
6/14/2017		0.0097 (J)	<0.01						
6/15/2017	<0.01			0.0023 (J)	0.0026 (J)	0.0227 (J)			
9/27/2017		0.0099 (J)	<0.01						
9/28/2017	<0.01			0.0021 (J)	0.0025 (J)	0.023 (J)			
2/15/2018	<0.01	0.0106 (J)	<0.01	0.0021 (J)	<0.01	0.0254 (J)			
6/27/2018	<0.01	0.01 (J)	<0.01	0.0021 (J)					
6/28/2018					0.0022 (J)	0.021 (J)			
12/18/2018		0.011 (J)	<0.01						
12/19/2018	<0.01			0.0021 (J)	0.0026 (J)				
12/20/2018						0.022 (J)			
1/15/2019							0.0017 (J)		
8/27/2019		0.01 (J)							
8/28/2019	0.00097 (J)	0.01 (J)	0.0009 (J)	0.0021 (J)	0.0025 (J)				
8/29/2019						0.021 (J)			
10/16/2019		0.0098 (J)	0.00078 (J)	0.0022 (J)		0.02 (J)			
10/22/2019							0.001 (J)		
12/3/2019	0.001 (J)				0.0024 (J)				
3/3/2020	<0.01								
3/5/2020		0.011 (J)	0.00089 (J)	0.0021 (J)	0.0025 (J)	0.021 (J)			
8/19/2020	0.001 (J)	0.009 (J)	0.00082 (J)	0.0021 (J)	0.0024 (J)	0.021 (J)			
9/16/2020	0.00096 (J)	0.0089 (J)	<0.01	0.002 (J)	0.0022 (J)				
9/17/2020						0.02 (J)			
3/3/2021		0.0085 (J)	0.00096 (J)		0.0024 (J)				
3/4/2021	0.00086 (J)			0.0021 (J)		0.021 (J)			
9/22/2021	0.0011 (J)	0.008 (J)	<0.01		0.0026 (J)				
9/23/2021				0.0022 (J)		0.019 (J)			
2/1/2022	0.00096 (J)	0.0083 (J)	0.00085 (J)	0.0021 (J)	0.0023 (J)	0.02 (J)			
8/23/2022		0.0109				0.0214	<0.01	0.0171	
8/24/2022	<0.01		<0.01	<0.01	<0.01				
9/1/2022									
1/24/2023	<0.01	0.0115	<0.01	<0.01					
1/25/2023					<0.01	0.0256		0.0207	0.0165
1/26/2023							<0.01		
8/31/2023		0.00967 (J)	<0.01				<0.01		
9/6/2023	<0.01			<0.01	<0.01			0.0185	
9/7/2023						0.0195			0.0182
2/10/2024	<0.01			<0.01			<0.01		
2/13/2024		0.0117	<0.01		<0.01	0.0201		0.0182	0.0184
8/27/2024						0.02	<0.01	0.019	
8/28/2024	<0.01	0.0102	<0.01	<0.01	<0.01				0.0163
Mean	0.006993	0.009917	0.00739	0.00401	0.00461	0.02134	0.007529	0.0187	0.01735
Std. Dev.	0.004358	0.0009973	0.004228	0.003432	0.003495	0.001808	0.004226	0.001317	0.001103
Upper Lim.	0.01	0.01045	0.01	0.0023	0.01	0.02234	0.01	0.02091	0.01985
Lower Lim.	0.001	0.009382	0.0009	0.0021	0.0024	0.02035	0.001	0.01649	0.01485

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-70I
9/7/2016	
9/8/2016	
11/17/2016	
11/18/2016	
11/21/2016	
2/22/2017	
2/23/2017	
6/14/2017	
6/15/2017	
9/27/2017	
9/28/2017	
2/15/2018	
6/27/2018	
6/28/2018	
12/18/2018	
12/19/2018	
12/20/2018	
1/15/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/16/2019	
10/22/2019	
12/3/2019	
3/3/2020	
3/5/2020	
8/19/2020	
9/16/2020	
9/17/2020	
3/3/2021	
3/4/2021	
9/22/2021	
9/23/2021	
2/1/2022	
8/23/2022	
8/24/2022	
9/1/2022	0.00615 (J)
1/24/2023	
1/25/2023	
1/26/2023	0.00381 (J)
8/31/2023	
9/6/2023	
9/7/2023	0.00385 (J)
2/10/2024	
2/13/2024	0.00385 (J)
8/27/2024	
8/28/2024	0.00382 (J)
Mean	0.004296
Std. Dev.	0.001037
Upper Lim.	0.00615
Lower Lim.	0.00381

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-70I
9/7/2016	<0.0002	<0.0002		<0.0002	<0.0002		7E-05 (J)	
9/8/2016			<0.0002					
11/17/2016	<0.0002	<0.0002	<0.0002	<0.0002				
11/18/2016					<0.0002			
11/21/2016							0.00012 (J)	
2/22/2017	<0.0002	<0.0002	<0.0002	<0.0002				
2/23/2017					<0.0002	<0.0002	7E-05 (J)	
4/17/2017						<0.0002		
5/15/2017						<0.0002		
6/14/2017		7E-05 (J)	7E-05 (J)					
6/15/2017	6E-05 (J)			7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)	
9/27/2017		4E-05 (J)	4E-05 (J)					
9/28/2017	<0.0002			<0.0002	<0.0002	<0.0002	0.00011 (J)	
2/15/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00015 (J)	
6/27/2018	<0.0002	<0.0002	<0.0002	<0.0002				
6/28/2018					<0.0002	<0.0002	<0.0002 (X)	
12/18/2018		<0.0002	<0.0002					
12/19/2018	<0.0002			<0.0002	<0.0002	<0.0002		
12/20/2018							0.00017 (J)	
8/27/2019		<0.0002						
8/28/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
8/29/2019							0.00018 (J)	
8/19/2020	8.4E-05 (J)	<0.0002	0.00012 (J)	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)	
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/17/2020							0.00011 (J)	
3/3/2021		<0.0002	<0.0002		<0.0002	<0.0002		
3/4/2021	<0.0002			<0.0002			8.5E-05 (J)	
9/22/2021	0.0001 (J)	0.00012 (J)	0.00015 (J)		0.0001 (J)			
9/23/2021				0.00011 (J)		0.00011 (J)	0.00022	
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
2/2/2022						<0.0002		
8/23/2022		<0.0002				<0.0002	0.000117 (J)	
8/24/2022	<0.0002		<0.0002	<0.0002	<0.0002			
9/1/2022								<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002				
1/25/2023					<0.0002	<0.0002	<0.0002	
1/26/2023								<0.0002
8/25/2023		<0.0002	<0.0002			<0.0002		
8/28/2023	<0.0002			<0.0002	<0.0002		<0.0002	0.00322
2/2/2024	<0.0002			<0.0002				
2/5/2024		<0.0002	<0.0002		<0.0002	<0.0002	8.5E-05 (J)	0.00149
8/27/2024						<0.0002	<0.0002	
8/28/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			0.00101
Mean	0.0001813	0.0001815	0.0001779	0.0001847	0.0001842	0.0001847	0.0001488	0.001224
Std. Dev.	4.496E-05	4.705E-05	4.837E-05	3.762E-05	3.878E-05	3.864E-05	5.061E-05	0.001245
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.00309
Lower Lim.	0.0001	0.00012	0.00015	0.00013	0.00013	0.00014	8.5E-05	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-53D	PZ-52D	PZ-70I
8/23/2022	0.00265		
9/1/2022			0.00142
1/25/2023	0.00234	0.0222	
1/26/2023			<0.001
9/6/2023	0.00211	0.0154	<0.001
2/13/2024	0.00209	0.0137	<0.001
8/27/2024	0.00191		
8/28/2024		0.00922	<0.001
Mean	0.00222	0.01513	0.001084
Std. Dev.	0.0002848	0.005386	0.0001878
Upper Lim.	0.002697	0.02736	0.00142
Lower Lim.	0.001743	0.002902	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-70I
9/7/2016	0.0024 (J)	0.0032 (J)	0.0079 (J)	0.0311		
11/17/2016	0.0028 (J)	0.0028 (J)				
11/18/2016			0.0082 (J)			
11/21/2016				0.0409		
2/22/2017	0.0018 (J)	0.0018 (J)				
2/23/2017			0.0061 (J)	0.0354		
6/14/2017		0.004 (J)				
6/15/2017	0.0024 (J)		0.0046 (J)	0.0511		
9/27/2017		0.0036 (J)				
9/28/2017	<0.005		0.0042 (J)	0.0484		
2/15/2018	<0.005	<0.005	0.0045 (J)	0.0435		
6/27/2018	0.002 (J)	0.0017 (J)				
6/28/2018			0.0033 (J)	0.037		
12/18/2018		<0.005				
12/19/2018	0.0014 (J)		0.0042 (J)			
12/20/2018				0.037		
1/15/2019					0.0033 (J)	
8/27/2019		<0.005				
8/28/2019	0.003 (J)	<0.005	0.0041 (J)			
8/29/2019				0.036		
10/16/2019		0.0028 (J)		0.033		
10/22/2019					0.0033 (J)	
12/3/2019	0.0041 (J)		0.0035 (J)			
3/3/2020	0.0019 (J)					
3/5/2020		<0.005	0.0034 (J)	0.032		
8/19/2020	0.003 (J)	<0.005	0.002 (J)	0.041		
9/16/2020	<0.005	0.0028 (J)	0.0031 (J)			
9/17/2020				0.029		
3/3/2021		<0.005	0.0024 (J)			
3/4/2021	<0.005			0.039		
9/22/2021	0.0015 (J)	<0.005	0.0032 (J)			
9/23/2021				0.031		
2/1/2022	0.0021 (J)	<0.005	0.0025 (J)	0.029		
8/23/2022		0.0061		0.0296	0.00157 (J)	
8/24/2022	0.00208 (J)		0.00246 (J)			
9/1/2022						0.00625
1/24/2023	0.00178 (J)	0.0049 (J)				
1/25/2023			0.00237 (J)	0.0279		
1/26/2023					0.00215 (J)	0.00921
8/31/2023		0.00572			<0.005	
9/6/2023	0.00214 (J)		0.00173 (J)	0.0186		0.00829
2/10/2024	0.00271 (J)				0.00203 (J)	
2/13/2024		0.0164	0.00174 (J)	0.0187		0.00789
8/27/2024				0.018	0.00217 (J)	
8/28/2024	0.00304 (J)	0.0238	0.00159 (J)			0.00691
Mean	0.002864	0.005665	0.003671	0.03368	0.002431	0.00771
Std. Dev.	0.001225	0.004963	0.001846	0.008915	0.0006537	0.001161
Upper Lim.	0.002589	0.00572	0.004466	0.03859	0.003208	0.009655
Lower Lim.	0.001895	0.0032	0.002613	0.02876	0.001655	0.005765

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Confidence Intervals

Plant Branch Client: Southern Company Data: Plant Branch AP

	BRGWC-17S	BRGWC-33S	BRGWC-38S
9/7/2016	<0.001	0.0002 (J)	<0.001
11/17/2016	<0.001	0.0002 (J)	
11/21/2016			0.0004 (J)
2/22/2017	<0.001	0.0002 (J)	
2/23/2017			0.0003 (J)
6/14/2017		0.0002 (J)	
6/15/2017	<0.001		0.0003 (J)
9/27/2017		0.0002 (J)	
9/28/2017	<0.001		0.0003 (J)
2/15/2018	<0.001	0.00024 (J)	0.00026 (J)
6/27/2018	<0.001	0.00022 (J)	
6/28/2018			0.00018 (J)
12/18/2018		0.00022 (J)	
12/19/2018	<0.001		
12/20/2018			<0.001 (X)
8/27/2019		0.00016 (J)	
8/28/2019	<0.001	0.00016 (J)	
8/29/2019			0.00021 (J)
10/16/2019		0.00019 (J)	0.0002 (J)
12/3/2019	6.6E-05 (J)		
3/3/2020	<0.001		
3/5/2020		0.0002 (J)	0.0002 (J)
8/19/2020	<0.001	0.00018 (J)	0.00019 (J)
9/16/2020	<0.001	0.00018 (J)	
9/17/2020			0.00017 (J)
3/3/2021		0.00018 (J)	
3/4/2021	<0.001		<0.001
9/22/2021	<0.001	<0.001	
9/23/2021			0.00022 (J)
2/1/2022	<0.001	<0.001	<0.001
8/23/2022		<0.001	<0.001
8/24/2022	<0.001		
1/24/2023	<0.001	<0.001	
1/25/2023			<0.001
8/31/2023		<0.001	
9/6/2023	<0.001		<0.001
2/10/2024	<0.001		
2/13/2024		<0.001	<0.001
8/27/2024			<0.001
8/28/2024	<0.001	<0.001	
Mean	0.0009555	0.0004514	0.0005681
Std. Dev.	0.0002038	0.000384	0.0003867
Upper Lim.	0.001	0.001	0.001
Lower Lim.	6.6E-05	0.00019	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/18/2024 11:07 AM View: Pond E - Nonparametric Confidence Interval
Plant Branch Client: Southern Company Data: Plant Branch AP

	PZ-52D
2/2/2023	5.39
9/26/2023	1.14 (U)
2/28/2024	2.54
8/28/2024	5.34
Mean	3.603
Std. Dev.	2.114
Upper Lim.	5.39
Lower Lim.	1.14

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/19/2024, 9:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004375**	**-145**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02087**	**-172**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

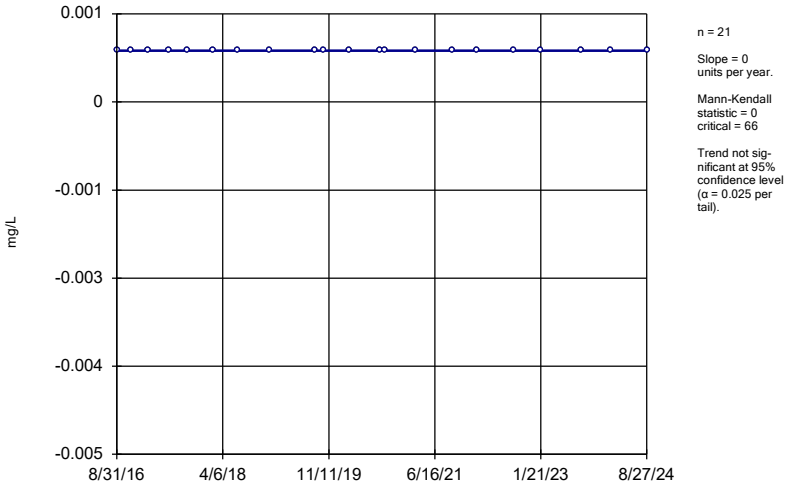
Plant Branch Client: Southern Company Data: Plant Branch AP Printed 11/19/2024, 9:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004375**	**-145**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-2I (bg)	0	-64	-66	No	21	57.14	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002793**	**-150**	**-66**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00009113**	**-89**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	25	66	No	21	71.43	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	21	66	No	21	76.19	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-33S	-0.003636	-31	-71	No	22	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-38S**	**-0.02087**	**-172**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 66

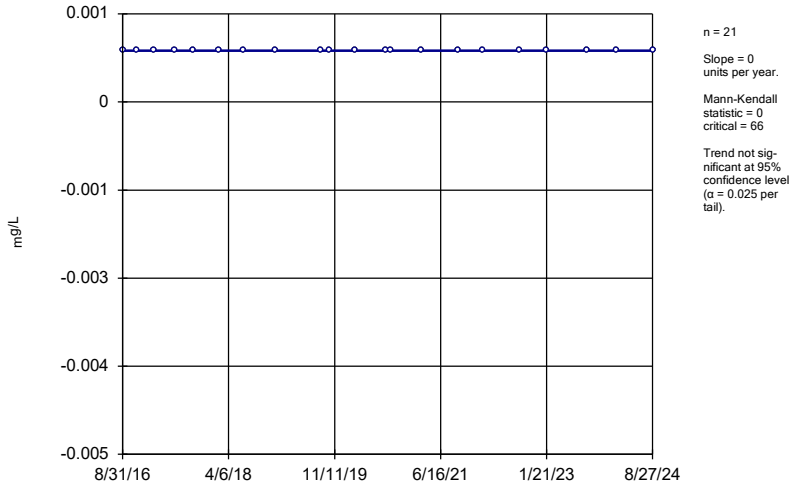
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 11/19/2024 9:37 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 66

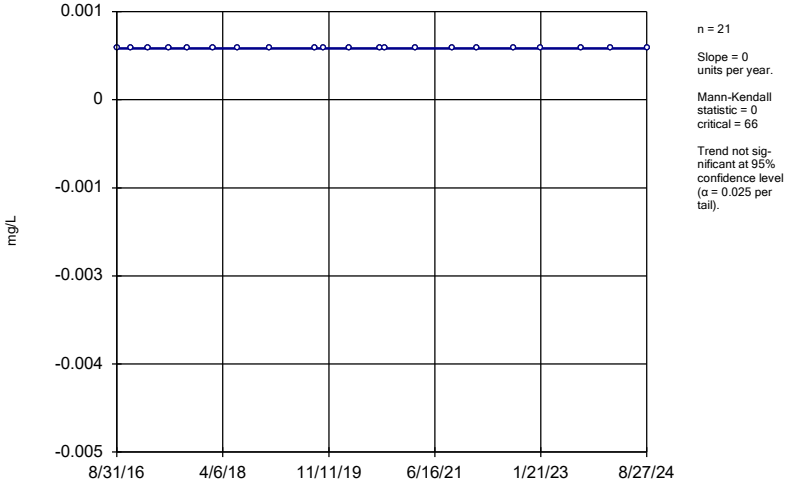
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 11/19/2024 9:37 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 66

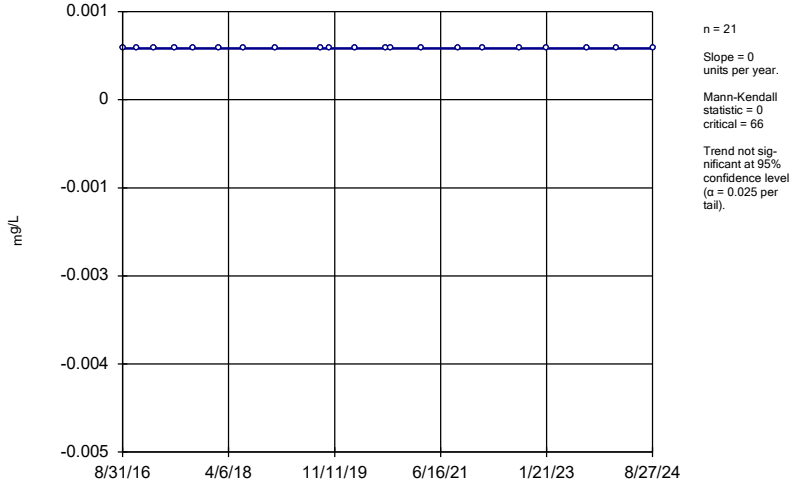
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 11/19/2024 9:38 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 66

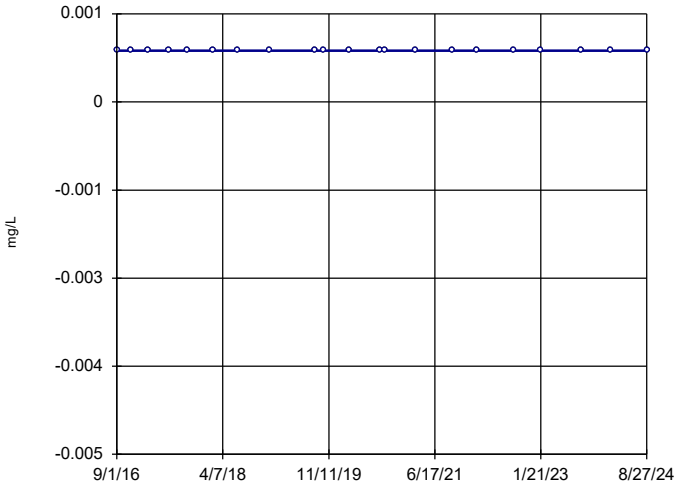
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 11/19/2024 9:38 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 66

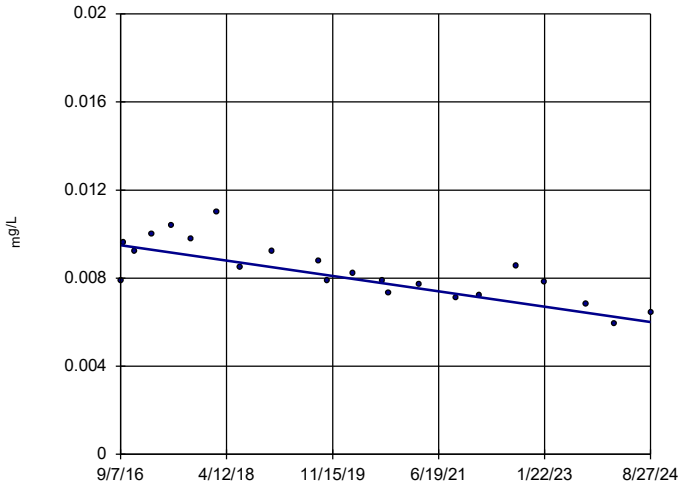
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 11/19/2024 9:39 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 22

Slope = -0.0004375 units per year.

Mann-Kendall statistic = -145
critical = -71

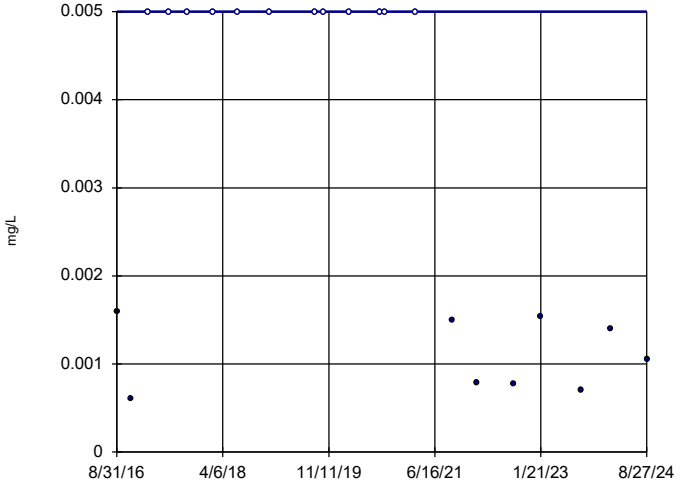
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 11/19/2024 9:40 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -64
critical = -66

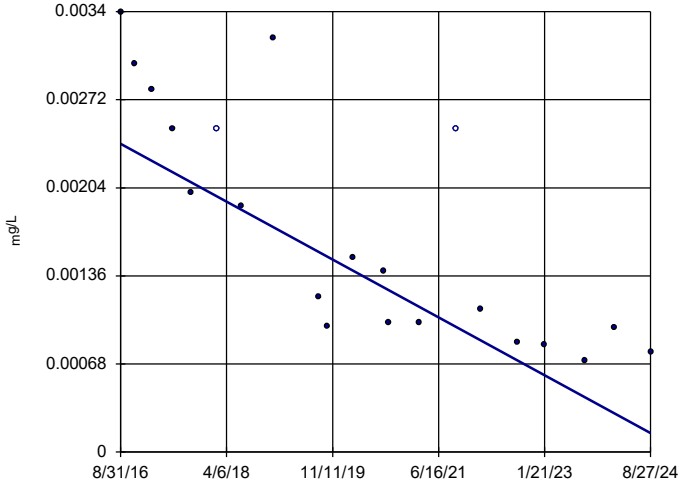
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/19/2024 9:41 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -0.0002793 units per year.

Mann-Kendall statistic = -150
critical = -66

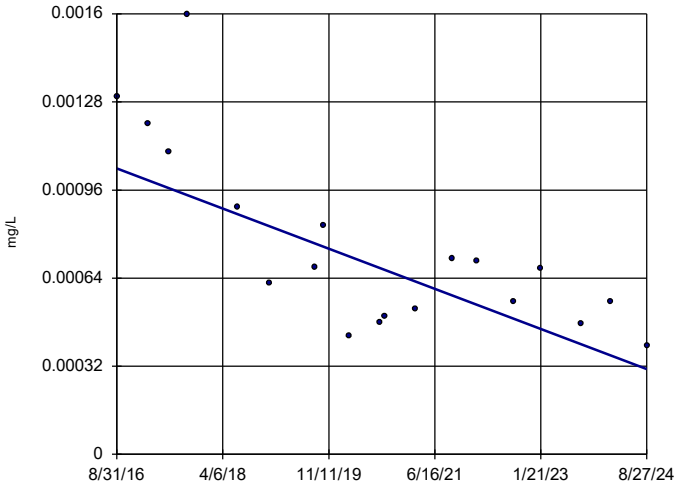
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/19/2024 9:41 AM
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 19

Slope = -0.00009113 units per year.

Mann-Kendall statistic = -89
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/19/2024 9:43 AM

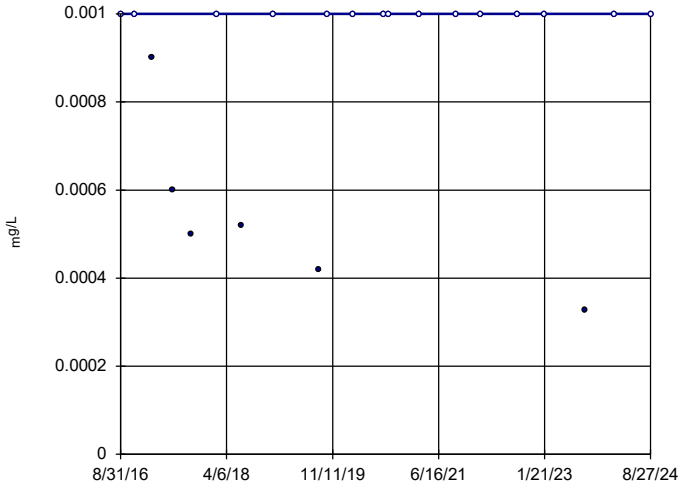
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 25
critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/19/2024 9:43 AM

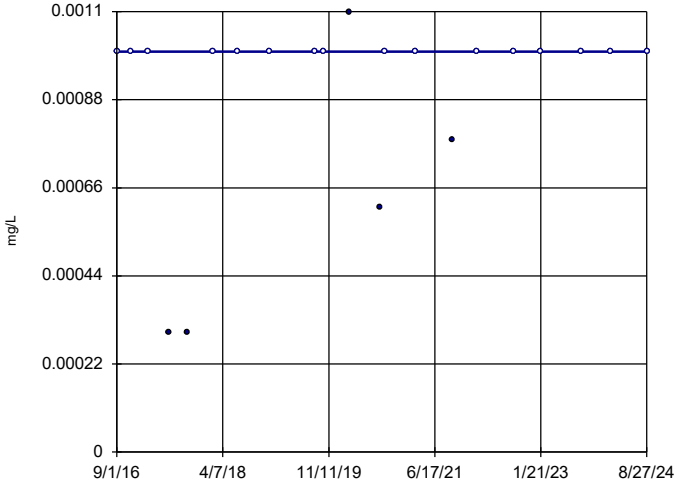
Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 21
critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

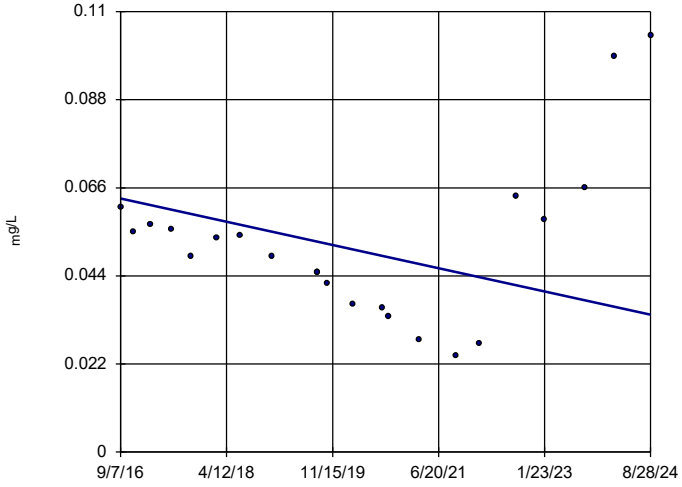
Constituent: Cobalt Analysis Run 11/19/2024 9:43 AM

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 22

Slope = -0.003636 units per year.

Mann-Kendall statistic = -31
critical = -71

Trend not significant at 95% confidence level (α = 0.025 per tail).

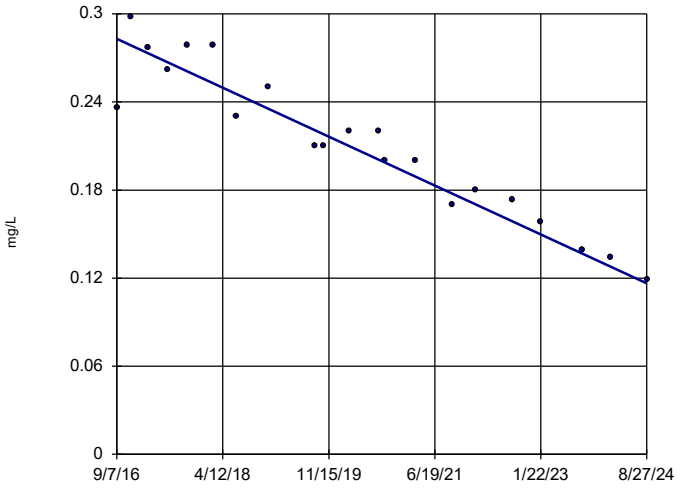
Constituent: Cobalt Analysis Run 11/19/2024 9:43 AM

Plant Branch Client: Southern Company Data: Plant Branch AP

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = -0.02087 units per year.

Mann-Kendall statistic = -172
critical = -66

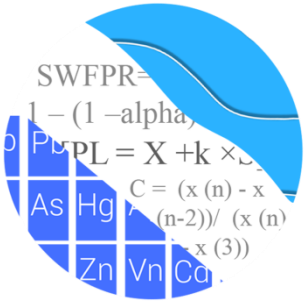
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/19/2024 9:43 AM

Plant Branch Client: Southern Company Data: Plant Branch AP

GROUNDWATER STATS CONSULTING

July 31, 2025



Southern Company Services
Attn: Mr. Chris Tidwell
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Branch Pond E – February 2025 Statistical Analysis

Dear Mr. Tidwell,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2025 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical Analysis of groundwater data for Georgia Power Company's Plant Branch Pond E. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016 and semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BRGWA-2I, BRGWA-2S, BRGWA-5I, BRGWA-5S, and BRGWA-6S
- **Downgradient wells:** BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- **Assessment wells:** PZ-13S, PZ-52D, PZ-53D, and PZ-70I

Data from assessment wells are evaluated for Appendix IV constituents using confidence intervals when a minimum of 4 samples is available. Data were sent electronically to GSC,

and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The Coal Combustion Residuals (CCR) monitoring program consists of the following constituents:

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. This generally gives the most conservative limit in each case.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site

characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel

to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified either visually or by Tukey's test, flagged in the computer database with "o" and deselected prior to construction of statistical limits. A list of flagged values is provided in the outlier summary (Figure C). Although outliers were screened for all wells, only outliers in upgradient wells will affect the interwell prediction limits.

When suspected outliers were evaluated using the Tukey box plot method during the previous screening, a few outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as the measurements may represent a future trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits

will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data in upgradient wells are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a number of statistically significant decreasing and increasing trends for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations and were in downgradient wells; therefore, the trends did not affect the interwell limits, and no adjustments were made to the data sets. Trend test results were included with the background screening report.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS. While data were further tested for intrawell eligibility during the

screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Evaluation of Appendix III Parameters – February 2025

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2025 (Figure D). Background (upgradient) well data were reassessed for potential outliers during this analysis in order to construct a statistical limit that is conservative (i.e., lower) from a regulatory perspective and representative of current groundwater quality conditions. No additional values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Calcium: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, and BRGWC-36S
- Chloride: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S
- Fluoride: BRGWC-38S
- pH (lower limit): BRGWC-33S, BRGWC-36S, BRGWC-37S, and BRGWC-38S
- Sulfate: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

- TDS: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, and BRGWC-38S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:
- Boron: BRGWC-35S and BRGWC-36S
- Calcium: BRGWA-2S, BRGWA-6S (both upgradient) and BRGWC-17S
- Chloride: BRGWC-17S, BRGWC-33S and BRGWC-36S
- Sulfate: BRGWC-17S
- TDS: BRGWC-17S

Decreasing:
- Boron: BRGWC-38S
- Calcium: BRGWA-5S (upgradient) and BRGWC-36S
- Chloride: BRGWA-5I and BRGWA-5S (both upgradient)
- pH: BRGWA-2I, BRGWA-2S, BRGWA-5S (all upgradient), and BRGWC-38S
- Sulfate: BRGWA-2I (upgradient), BRGWC-34S, BRGWC-36S, and BRGWC-38S
- TDS: BRGWA-5S (upgradient), BRGWC-36S, and BRGWC-38S

A summary of the trend test results follows this letter.

Evaluation of Appendix IV Parameters – February 2025

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis, which includes all downgradient wells for molybdenum. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. As a result of the data received from the EQUIS database, some of the reported measurements in upgradient well BRGWA-5I for cobalt were different from those

historically used in the Sanitas database. The previously flagged non-detect observation of 0.01 mg/L during the November 2016 sample event was unflagged during this analysis since the reported measurement is currently a reported trace value of 0.0012 mg/L. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2025 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well with a minimum of 8 observations and each assessment well with a minimum of 4 observations (Figure H). As mentioned above, well/constituent pairs containing 100% non-detects do not require analysis.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Only when the entire confidence interval is above a GWPS is the downgradient or assessment well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Statistical exceedances were identified for the following well/constituent pairs:

- Beryllium: BRGWC-38S
- Cobalt: BRGWC-33S and BRGWC-38S

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability

in groundwater quality unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Beryllium: BRGWC-38S
- Cobalt: BRGWA-2I, BRGWA-2S, BRGWA-5I (all upgradient), and BRGWC-38S

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Branch Pond E. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

Table of Contents

Summary Tables	12
Figure A. Time Series	25
Figure B. Box Plots	85
Figure C. Outlier Summary	97
Figure D. Appendix III Prediction Limits	99
Figure E. Appendix III Trend Tests	132
Figure F. Upper Tolerance Limits	154
Figure G. Groundwater Protection Standards	164
Figure H. Confidence Intervals	166
Figure I. Appendix IV Trend Tests	199

Summary Tables

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 5/21/2025 12:59 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Antimony (mg/L)
BRGWC-33S, BRGWC-34S, BRGWC-35S, PZ-13S, PZ-52D, PZ-53D, PZ-70I

Arsenic (mg/L)
BRGWC-34S, PZ-53D

Beryllium (mg/L)
BRGWC-17S, BRGWC-37S, PZ-52D, PZ-53D

Cadmium (mg/L)
BRGWC-17S, BRGWC-35S, BRGWC-37S, PZ-52D, PZ-53D, PZ-70I

Chromium (mg/L)
BRGWC-34S, PZ-52D, PZ-53D, PZ-70I

Cobalt (mg/L)
BRGWC-17S, BRGWC-36S, BRGWC-37S

Lead (mg/L)
PZ-52D, PZ-53D, PZ-70I

Lithium (mg/L)
BRGWC-37S

Mercury (mg/L)
PZ-13S, PZ-52D, PZ-53D

Molybdenum (mg/L)
BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, BRGWC-38S, PZ-13S

Selenium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-37S, PZ-52D, PZ-53D

Thallium (mg/L)
BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-37S, PZ-13S, PZ-52D, PZ-53D, PZ-70I

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	2/26/2025	0.0756	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	2/26/2025	2.04	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	2/26/2025	2.19	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	2/26/2025	2.58	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	2/26/2025	1.21	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	2/26/2025	1.15	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/26/2025	49.9	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/26/2025	443	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/26/2025	127	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/26/2025	67.8	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/26/2025	42.5	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	2/26/2025	5.96	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/26/2025	96.1	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/26/2025	23	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	2/26/2025	6.55	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/26/2025	8.26	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/26/2025	6.76	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	2/26/2025	0.336	Yes	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
pH, Field (SU)	BRGWC-33S	7.063	5.791	2/26/2025	4.94	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-36S	7.063	5.791	2/26/2025	5.64	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-37S	7.063	5.791	2/26/2025	5.73	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-38S	7.063	5.791	2/26/2025	4.23	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/26/2025	206	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/26/2025	1580	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/26/2025	400	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/26/2025	266	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/26/2025	212	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/26/2025	199	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	BRGWC-17S	192.1	n/a	2/26/2025	400	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-33S	192.1	n/a	2/26/2025	2440	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-34S	192.1	n/a	2/26/2025	609	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-35S	192.1	n/a	2/26/2025	490	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-36S	192.1	n/a	2/26/2025	375	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-38S	192.1	n/a	2/26/2025	329	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**2/26/2025**	**0.0756**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**2/26/2025**	**2.04**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**2/26/2025**	**2.19**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**2/26/2025**	**2.58**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**2/26/2025**	**1.21**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	2/26/2025	0.00753J	No	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**2/26/2025**	**1.15**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**2/26/2025**	**49.9**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**2/26/2025**	**443**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**2/26/2025**	**127**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**2/26/2025**	**67.8**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**2/26/2025**	**42.5**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	2/26/2025	3.77	No	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/26/2025	20.9	No	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**2/26/2025**	**5.96**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**2/26/2025**	**96.1**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**2/26/2025**	**23**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**2/26/2025**	**6.55**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**2/26/2025**	**8.26**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	2/26/2025	1.97	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**2/26/2025**	**6.76**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	2/26/2025	0.0663J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	2/26/2025	0.143	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	2/26/2025	0.1	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	2/26/2025	0.0472J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	2/26/2025	0.0348J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	2/26/2025	0.0523J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**2/26/2025**	**0.336**	**Yes**	**115**	**n/a**	**n/a**	**46.96**	**n/a**	**n/a**	**0.0001494**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	BRGWC-17S	7.063	5.791	2/26/2025	6.26	No	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	**BRGWC-33S**	**7.063**	**5.791**	**2/26/2025**	**4.94**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (SU)	BRGWC-34S	7.063	5.791	2/26/2025	5.97	No	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-35S	7.063	5.791	2/26/2025	5.94	No	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	**BRGWC-36S**	**7.063**	**5.791**	**2/26/2025**	**5.64**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (SU)	**BRGWC-37S**	**7.063**	**5.791**	**2/26/2025**	**5.73**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (SU)	**BRGWC-38S**	**7.063**	**5.791**	**2/26/2025**	**4.23**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**2/26/2025**	**206**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**2/26/2025**	**1580**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**2/26/2025**	**400**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**2/26/2025**	**266**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**2/26/2025**	**212**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	2/26/2025	0.348J	No	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**2/26/2025**	**199**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**BRGWC-17S**	**192.1**	**n/a**	**2/26/2025**	**400**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-33S**	**192.1**	**n/a**	**2/26/2025**	**2440**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-34S**	**192.1**	**n/a**	**2/26/2025**	**609**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-35S**	**192.1**	**n/a**	**2/26/2025**	**490**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-36S**	**192.1**	**n/a**	**2/26/2025**	**375**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	BRGWC-37S	192.1	n/a	2/26/2025	23	No	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	**BRGWC-38S**	**192.1**	**n/a**	**2/26/2025**	**329**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**

Appendix III - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-35S	0.1468	176	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.02686	120	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-38S	-0.06011	-110	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.2165	120	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5678	-91	-87	Yes	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1143	117	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	2.332	151	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-36S	-1.16	-109	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1082	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06833	-118	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-17S	0.2159	123	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-33S	4.264	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	0.5637	141	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2I (bg)	-0.07589	-153	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2S (bg)	-0.03954	-167	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-5S (bg)	-0.04151	-111	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-38S	-0.06527	-119	-111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.3354	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	9.474	130	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-17.7	-107	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-11.94	-127	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-34.67	-173	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5S (bg)	-7.447	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-17S	10.12	97	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-36S	-18.02	-175	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-38S	-48.66	-186	-87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0002989	56	87	No	21	38.1	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-7	-87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-25	-87	No	21	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-34	-87	No	21	52.38	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-2	-87	No	21	76.19	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0.003092	46	92	No	22	31.82	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0.003981	14	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	-0.01013	-29	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1468**	**176**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02686**	**120**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-38S**	**-0.06011**	**-110**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.04047	11	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.2165**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.2594	72	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-5S (bg)**	**-0.5678**	**-91**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1143**	**117**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.332**	**151**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	10.81	50	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-2.014	-52	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	1.169	75	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-36S**	**-1.16**	**-109**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.001602	-15	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.03055	36	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1082**	**-93**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06833**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.002974	-26	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.2159**	**123**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-33S**	**4.264**	**99**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-34S	0	5	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.05977	84	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.5637**	**141**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1582	67	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	-33	-98	No	23	47.83	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.001185	77	98	No	23	52.17	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.001548	81	98	No	23	56.52	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	0.001355	29	98	No	23	30.43	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0	22	98	No	23	47.83	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	-0.03813	-68	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-2I (bg)**	**-0.07589**	**-153**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**BRGWA-2S (bg)**	**-0.03954**	**-167**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-5I (bg)	-0.01803	-61	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-5S (bg)**	**-0.04151**	**-111**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-6S (bg)	-0.01485	-31	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-33S	-0.01259	-90	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-36S	0.004819	27	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-37S	-0.003573	-13	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWC-38S**	**-0.06527**	**-119**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-2I (bg)**	**-0.3354**	**-88**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01804	-28	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.1653	-72	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03376	-72	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01017	-49	-87	No	21	19.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**9.474**	**130**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-33S	20.58	37	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-34S**	**-17.7**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	-0.3331	-18	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-11.94**	**-127**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-34.67**	**-173**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWA-2I (bg)	-9.626	-85	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-2S (bg)	-1.234	-22	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5I (bg)	-3.51	-64	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-133**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWA-6S (bg)	-2.111	-39	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-17S**	**10.12**	**97**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-33S	52.89	43	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-34S	-22.68	-66	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-35S	0.08072	1	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-36S**	**-18.02**	**-175**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	110	93.64	n/a	0.003545	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	110	77.27	n/a	0.003545	NP Inter(NDs)
Barium (mg/L)	n/a	0.063	n/a	n/a	n/a	n/a	110	0	n/a	0.003545	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	n/a	110	14.55	n/a	0.003545	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0034	n/a	n/a	n/a	n/a	109	44.04	n/a	0.003731	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.083	n/a	n/a	n/a	n/a	110	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.289	n/a	n/a	n/a	n/a	115	46.96	n/a	0.002743	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	110	84.55	n/a	0.003545	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	n/a	110	48.18	n/a	0.003545	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	n/a	100	90	n/a	0.005921	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	n/a	110	66.36	n/a	0.003545	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		2.08	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.008948**	**0.00743**	**0.004**	**Yes**	**23**	**0.001451**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.06708**	**0.04238**	**0.006**	**Yes**	**22**	**0.023**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2364**	**0.1775**	**0.006**	**Yes**	**22**	**0.05486**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	22	0.0004477	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0016	0.006	No	22	0.0009101	81.82	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	22	0.0007363	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	22	0.0006481	90.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.0033	0.01	No	22	0.001544	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.00516	0.00262	0.01	No	22	0.001934	63.64	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	22	0.001588	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	22	0.001691	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.003	0.01	No	22	0.001721	77.27	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.002993	0.001834	0.01	No	22	0.001499	22.73	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.005	0.00388	0.01	No	8	0.000396	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.005	0.00368	0.01	No	5	0.0005903	80	Kaplan-Meier	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-70I	0.005	0.00366	0.01	No	6	0.0005471	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04557	0.04037	2	No	22	0.004841	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0357	0.02	2	No	22	0.01158	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.03226	0.02542	2	No	22	0.006371	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.0489	0.03371	2	No	22	0.0185	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-36S	0.03954	0.02961	2	No	22	0.01042	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02552	0.02374	2	No	22	0.001655	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0215	0.015	2	No	22	0.008875	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.14	0.0499	2	No	8	0.03026	0	None	No	0.004	NP (normality)
Barium (mg/L)	PZ-52D	0.01853	0.01495	2	No	5	0.001069	0	None	No	0.01	Param.
Barium (mg/L)	PZ-53D	0.05537	0.0494	2	No	6	0.002175	0	None	No	0.01	Param.
Barium (mg/L)	PZ-70I	0.0444	0.0196	2	No	6	0.009737	0	None	No	0.0155	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.002058	0.001647	0.004	No	22	0.0003824	4.545	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.000205	0.00013	0.004	No	22	0.0001641	27.27	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00021	0.00012	0.004	No	22	0.0001576	22.73	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.0005	0.000087	0.004	No	23	0.0002035	39.13	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.008948**	**0.00743**	**0.004**	**Yes**	**23**	**0.001451**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.0004683	0.0003075	0.004	No	8	0.00007584	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-70I	0.0003922	0.0002462	0.004	No	6	0.00009094	16.67	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0005705	0.000357	0.005	No	22	0.0001989	4.545	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.001	0.00018	0.005	No	22	0.0003625	31.82	None	No	0.01	NP (normality)
Cadmium (mg/L)	BRGWC-36S	0.001	0.00011	0.005	No	23	0.0003111	86.96	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005792	0.0004646	0.005	No	22	0.0001067	4.545	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.001	0.00011	0.005	No	8	0.0003147	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.0123	0.009821	0.1	No	22	0.002307	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.01	0.00049	0.1	No	22	0.002028	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006376	0.004708	0.1	No	22	0.001554	4.545	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.00797	0.00696	0.1	No	22	0.0009401	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.01	0.0014	0.1	No	22	0.004277	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004102	0.003317	0.1	No	22	0.0007311	4.545	None	No	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02013	0.01117	0.1	No	8	0.004631	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.06708**	**0.04238**	**0.006**	**Yes**	**22**	**0.023**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.004885	0.003591	0.006	No	22	0.001293	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0012	0.0008	0.006	No	22	0.0003532	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2364**	**0.1775**	**0.006**	**Yes**	**22**	**0.05486**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.001	0.00037	0.006	No	8	0.0002227	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	PZ-52D	0.00249	0.000307	0.006	No	7	0.0008333	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	PZ-53D	0.0012	0.001	0.006	No	7	0.00007559	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	PZ-70I	0.0056	0.000507	0.006	No	6	0.002002	0	None	No	0.0155	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	1.105	0.3548	5	No	22	1.172	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.726	0.7744	5	No	22	1.006	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.544	0.8442	5	No	22	1.017	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.717	0.7169	5	No	22	1.05	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	2.038	0.8893	5	No	22	1.278	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	1.359	0.4768	5	No	22	1.137	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.707	2.285	5	No	22	1.449	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	4.042	0.5244	5	No	8	1.659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	6.718	0.5739	5	No	5	1.833	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-53D	4.304	2.313	5	No	6	0.7247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-70I	3.667	0.9054	5	No	6	1.143	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.2009	0.1008	4	No	23	0.11	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2365	0.1302	4	No	23	0.1017	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1382	0.08651	4	No	23	0.07208	4.348	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.22	0.055	4	No	23	0.09918	13.04	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-36S	0.1488	0.05575	4	No	23	0.1046	39.13	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.1	0.055	4	No	23	0.02766	34.78	None	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BRGWC-38S	0.8988	0.6517	4	No	23	0.2362	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.1541	0.02709	4	No	8	0.05563	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	2.04	0.14	4	No	7	0.7946	0	None	No	0.008	NP (normality)
Fluoride (mg/L)	PZ-53D	0.2978	0.06986	4	No	7	0.09595	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-70I	1.43	0.1	4	No	6	0.5342	50	None	No	0.0155	NP (normality)
Lead (mg/L)	BRGWC-17S	0.002	0.0001	0.015	No	22	0.0005659	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.002	0.000088	0.015	No	22	0.0009709	50	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.002	0.0003	0.015	No	22	0.0006462	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.002	0.0002	0.015	No	22	0.0007384	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.002	0.000047	0.015	No	22	0.0004164	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.002	0.0001	0.015	No	22	0.0005591	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.002	0.00036	0.015	No	22	0.0007928	36.36	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.002	0.00035	0.015	No	8	0.0005834	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.01	0.001	0.089	No	22	0.004301	68.18	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01046	0.00939	0.089	No	22	0.000999	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.01	0.00096	0.089	No	22	0.004163	72.73	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	22	0.003585	27.27	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.01	0.0024	0.089	No	22	0.0036	31.82	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02221	0.02015	0.089	No	22	0.001919	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.01	0.001	0.089	No	8	0.004009	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	PZ-52D	0.0184	0.0163	0.089	No	5	0.001028	0	None	No	0.031	NP (normality)
Lithium (mg/L)	PZ-53D	0.02026	0.01697	0.089	No	6	0.001196	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-70I	0.00615	0.00381	0.089	No	6	0.0009345	0	None	No	0.0155	NP (normality)
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	20	0.00004396	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	20	0.00004705	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00015	0.002	No	20	0.00004823	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	20	0.00003677	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	20	0.00003791	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	20	0.00003776	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001442	0.00009314	0.002	No	20	0.00004949	25	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	PZ-70I	0.002728	0	0.002	No	6	0.001132	33.33	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.02316	0.004261	0.1	No	5	0.00564	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-53D	0.002615	0.001612	0.1	No	6	0.0003649	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-70I	0.00142	0.001	0.1	No	6	0.0001715	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	BRGWC-17S	0.002596	0.001931	0.05	No	22	0.001197	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.00572	0.0032	0.05	No	22	0.006961	36.36	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.004343	0.002546	0.05	No	22	0.001848	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.03796	0.02766	0.05	No	22	0.009595	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003199	0.001826	0.05	No	8	0.0006472	12.5	None	No	0.01	Param.
Selenium (mg/L)	PZ-70I	0.009103	0.005857	0.05	No	6	0.001181	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.002	0.000066	0.002	No	22	0.0004123	95.45	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.002	0.00019	0.002	No	22	0.0008875	36.36	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.002	0.00021	0.002	No	22	0.0008856	40.91	None	No	0.01	NP (normality)

Appendix IV - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004739**	**-167**	**-76**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02094**	**-193**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Tests - All Results

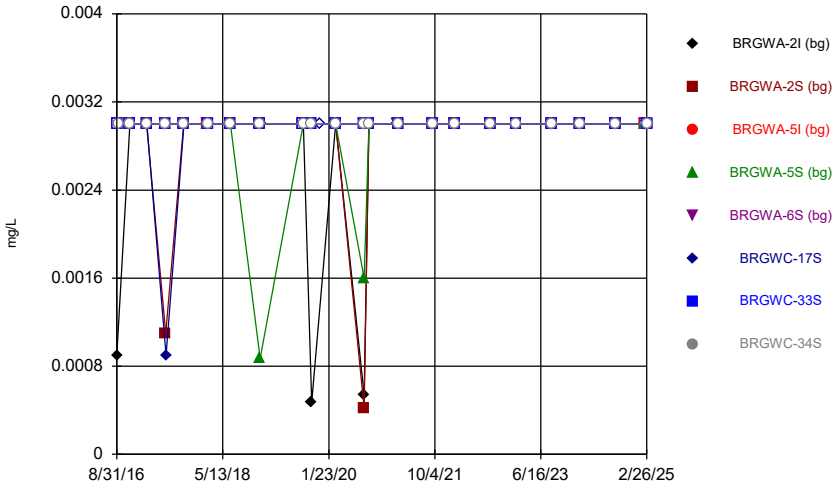
Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004739**	**-167**	**-76**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	31	71	No	22	72.73	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	24	71	No	22	77.27	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-33S	0	0	71	No	22	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-38S**	**-0.02094**	**-193**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**

FIGURE A.

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

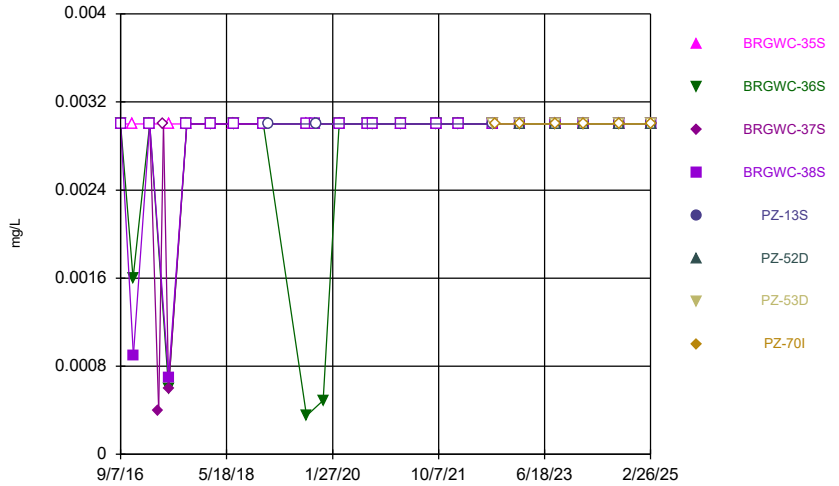
Time Series



Constituent: Antimony Analysis Run 5/21/2025 12:26 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

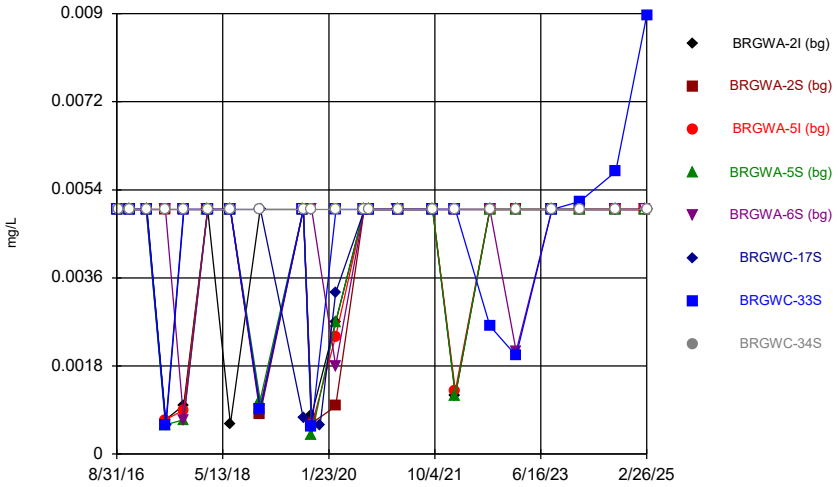
Time Series



Constituent: Antimony Analysis Run 5/21/2025 12:26 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

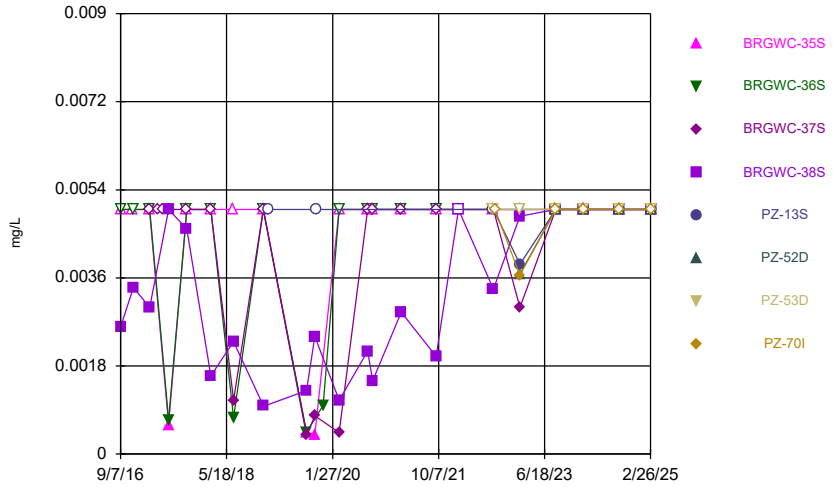
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 12:26 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

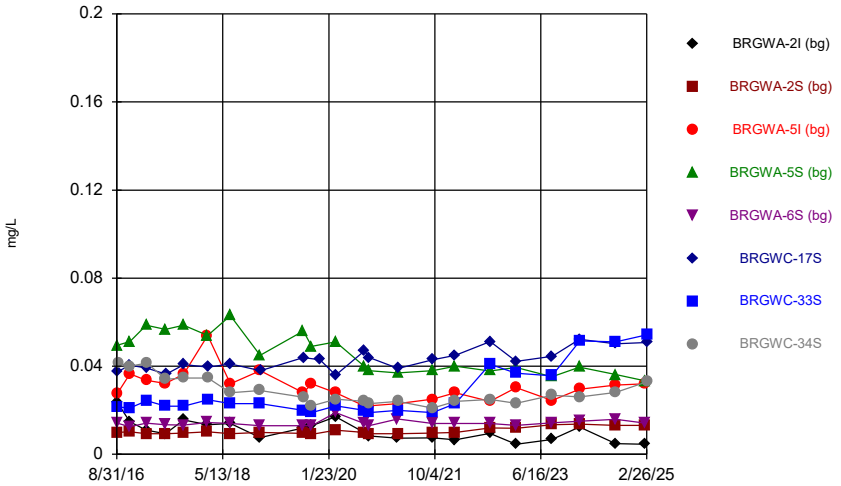
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 12:26 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

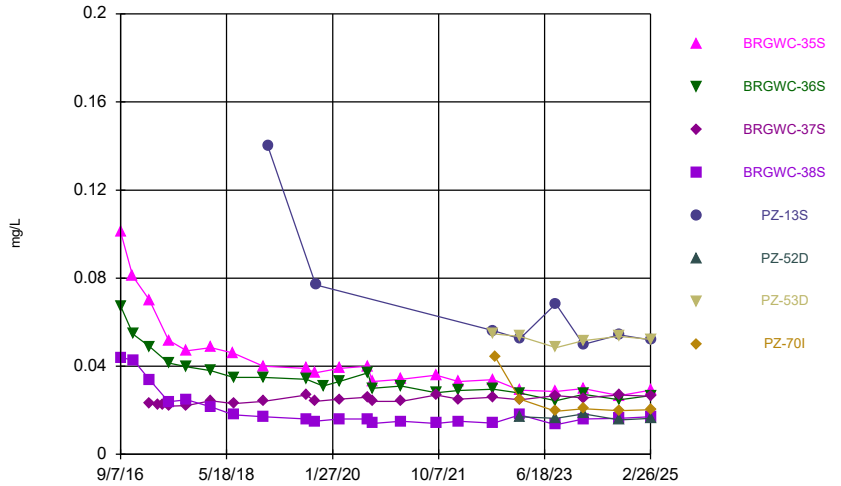


Constituent: Barium Analysis Run 5/21/2025 12:26 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

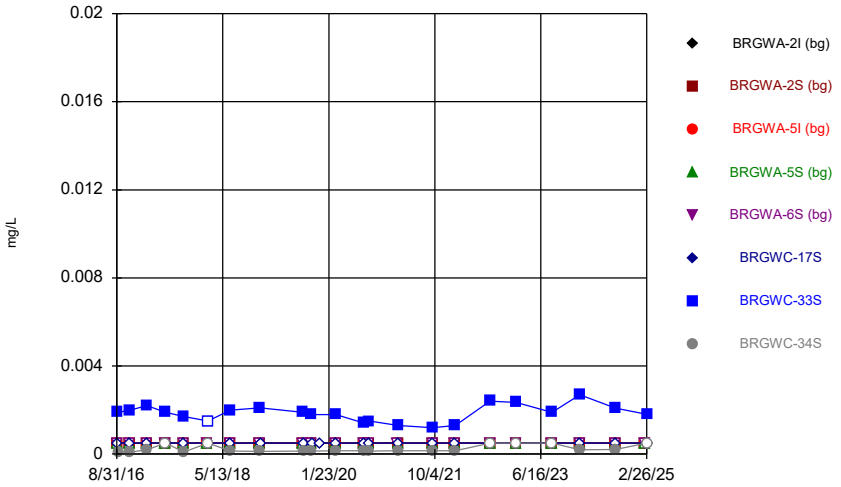


Constituent: Barium Analysis Run 5/21/2025 12:26 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

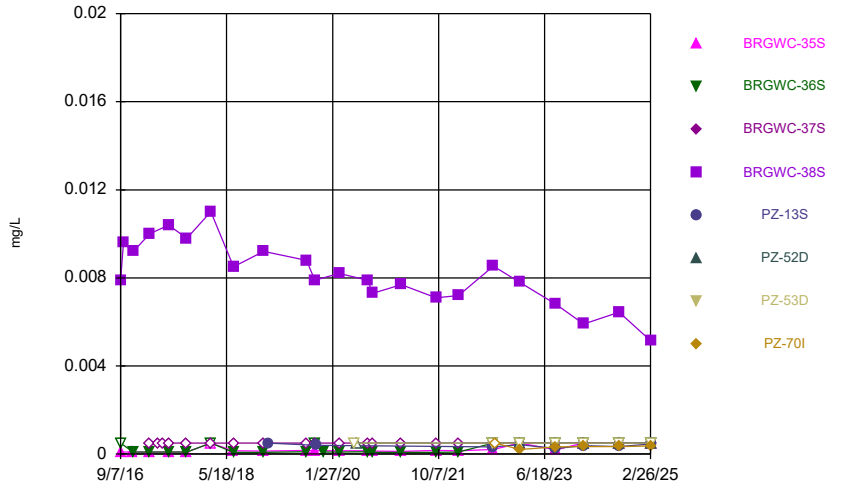


Constituent: Beryllium Analysis Run 5/21/2025 12:26 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

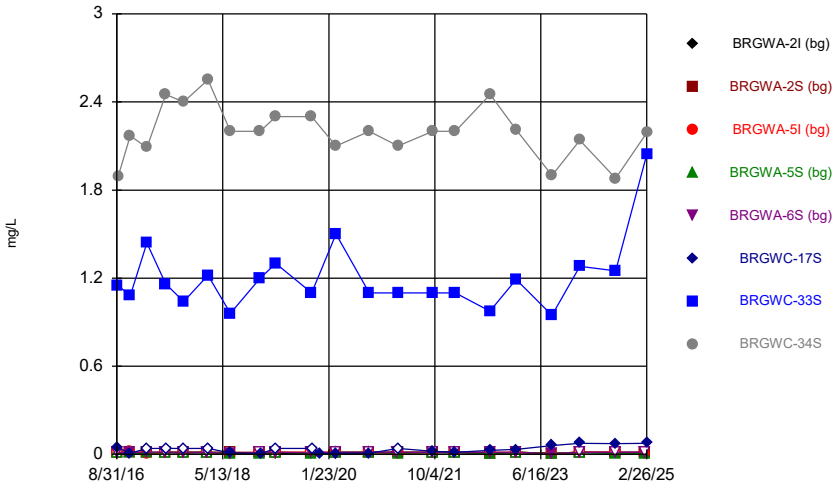


Constituent: Beryllium Analysis Run 5/21/2025 12:26 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

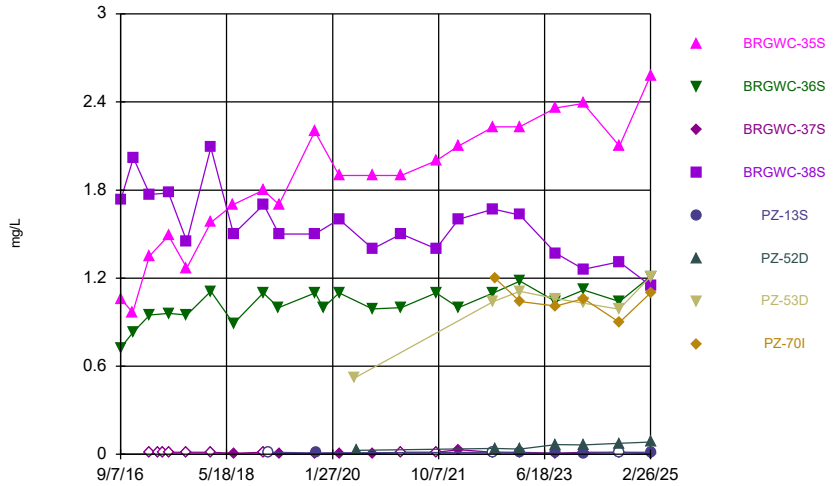
Time Series



Constituent: Boron Analysis Run 5/21/2025 12:26 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

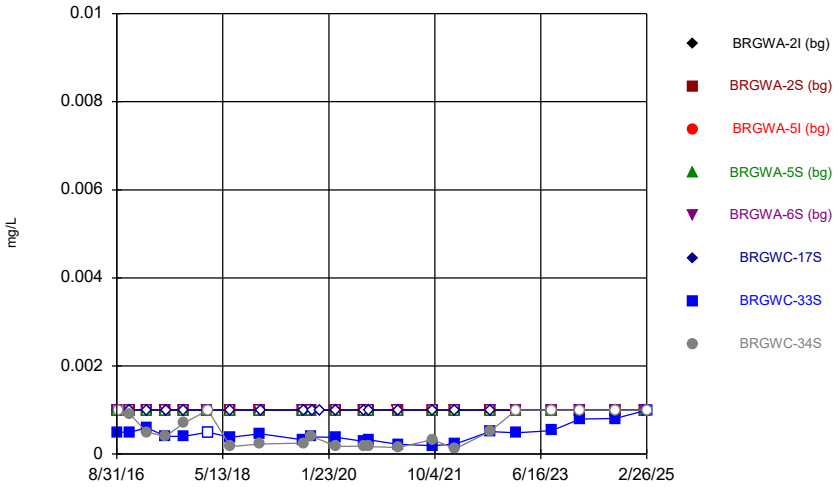
Time Series



Constituent: Boron Analysis Run 5/21/2025 12:26 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

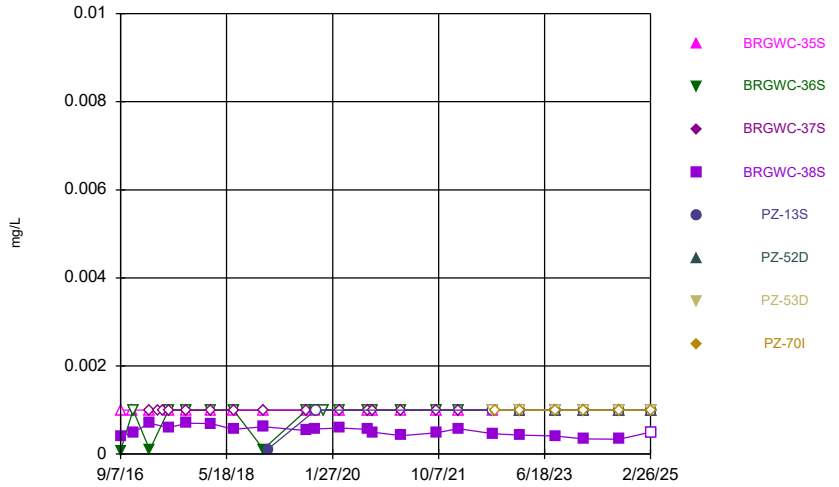
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

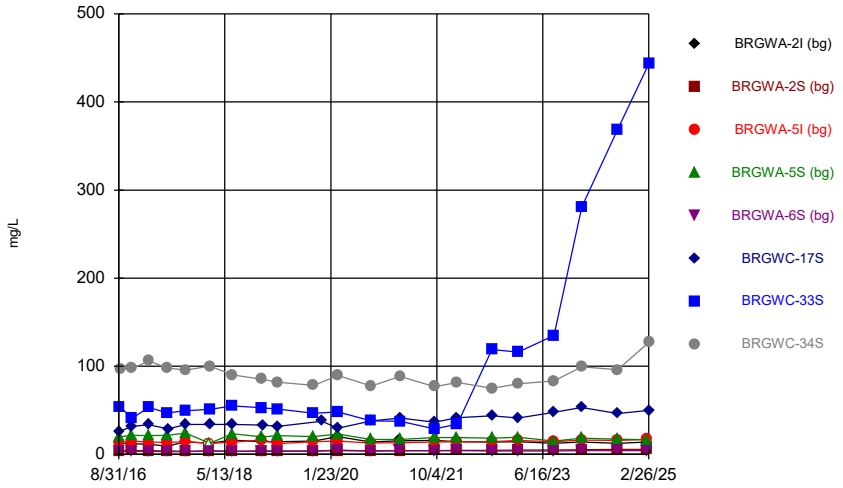
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

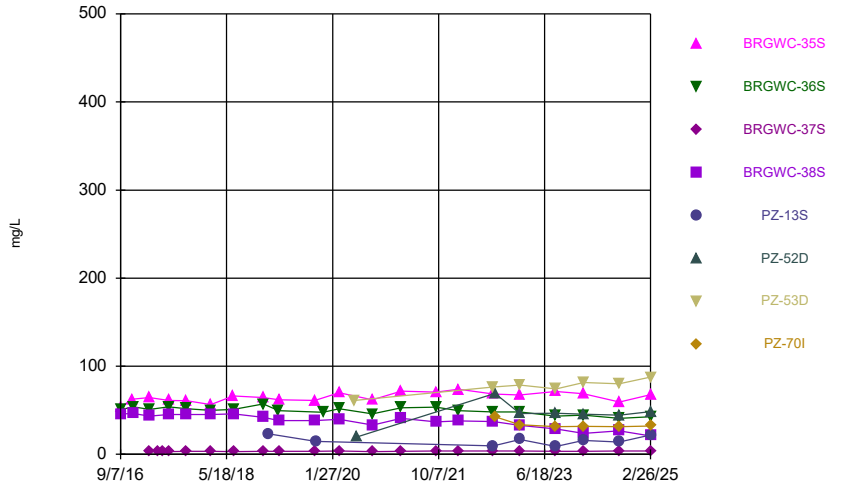
Time Series



Constituent: Calcium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

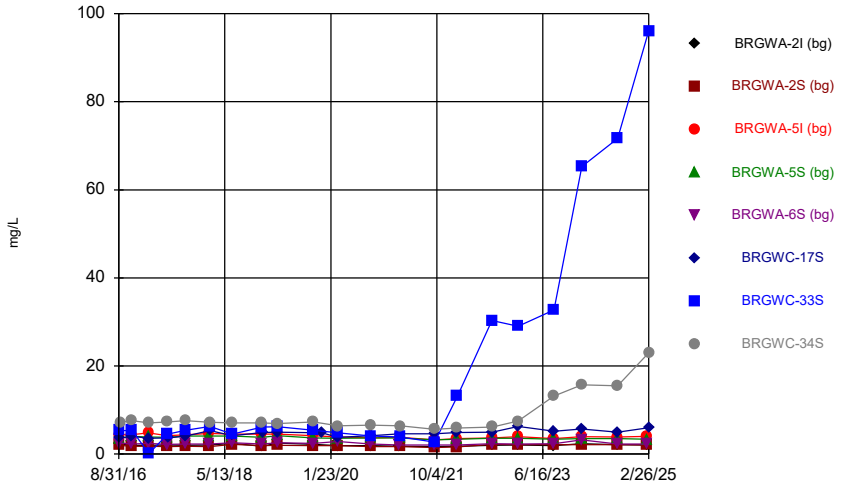
Time Series



Constituent: Calcium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

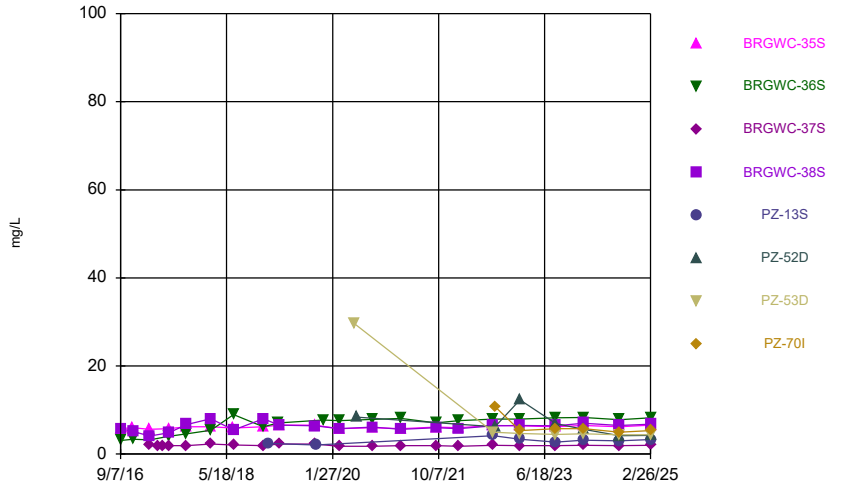
Time Series



Constituent: Chloride Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

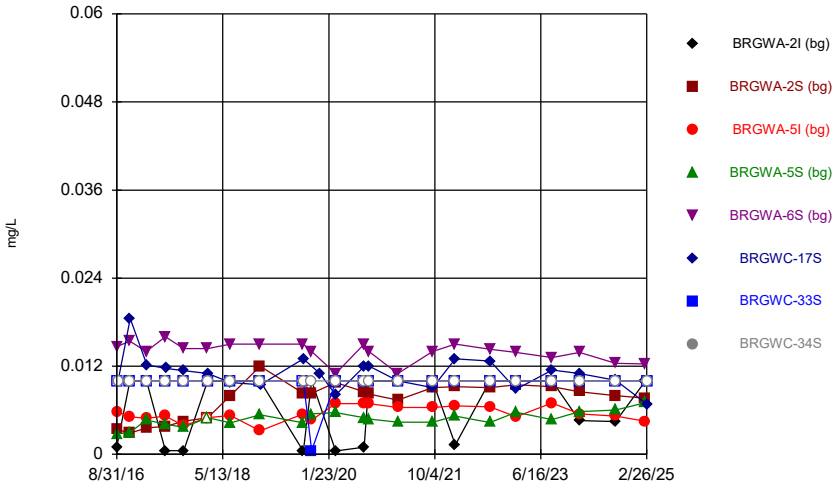
Time Series



Constituent: Chloride Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

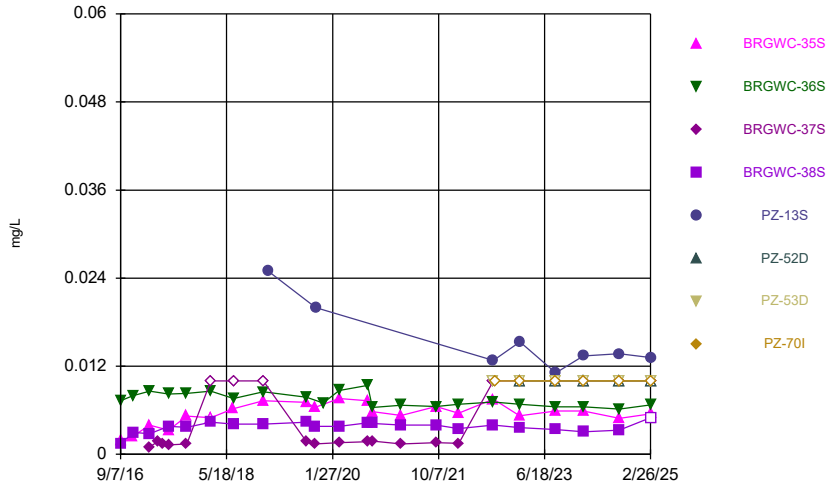
Time Series



Constituent: Chromium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

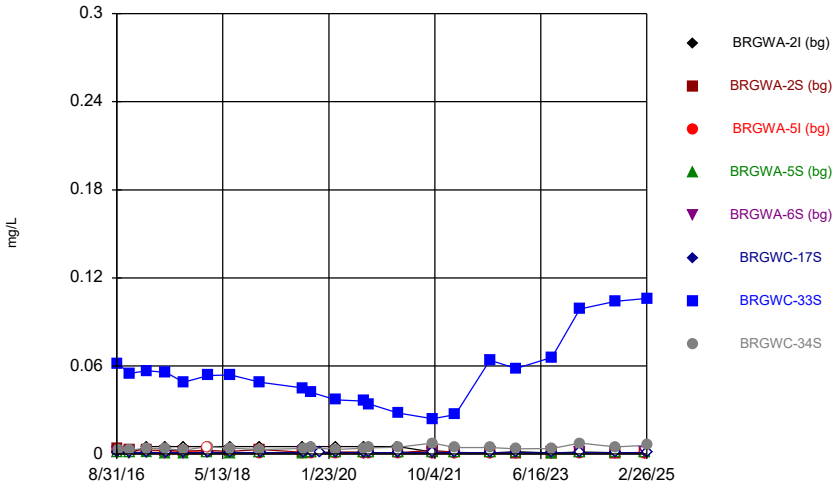
Time Series



Constituent: Chromium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

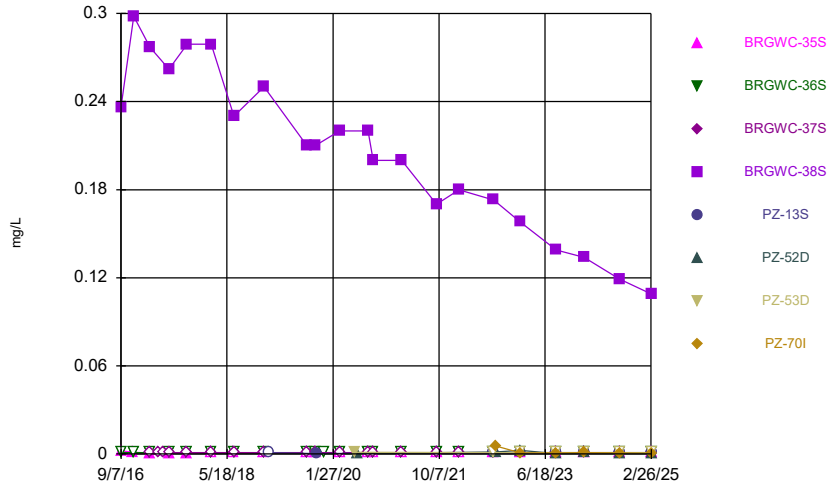
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

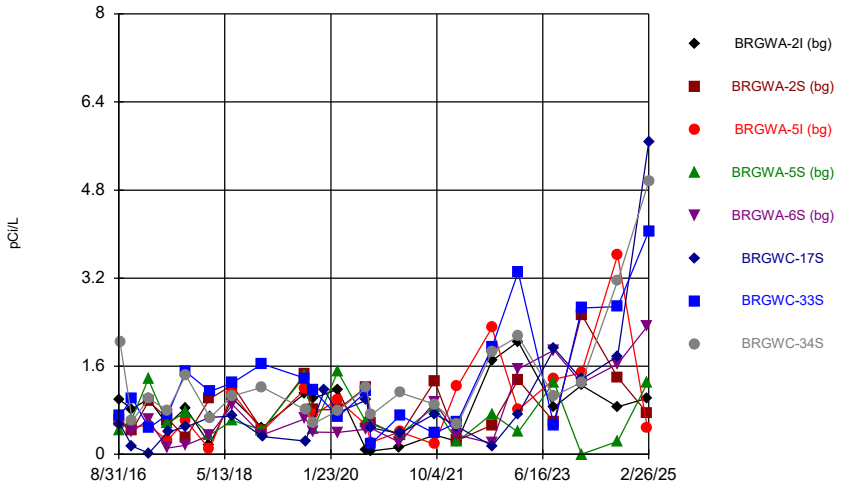
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

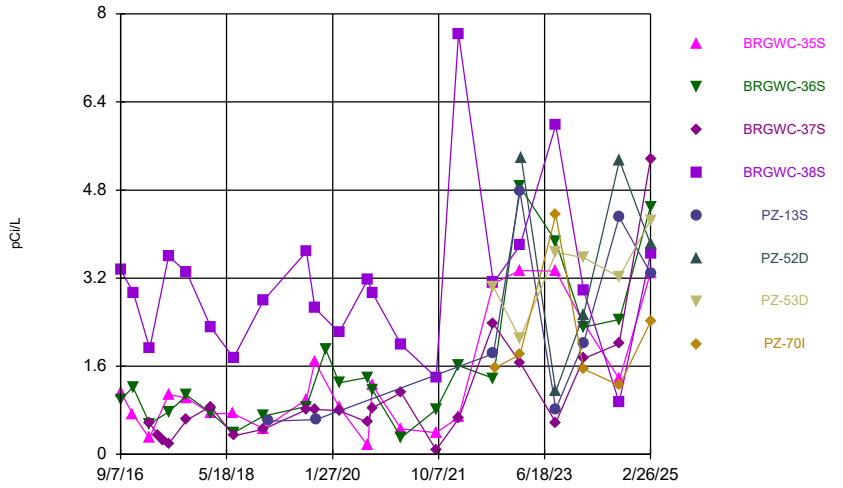


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

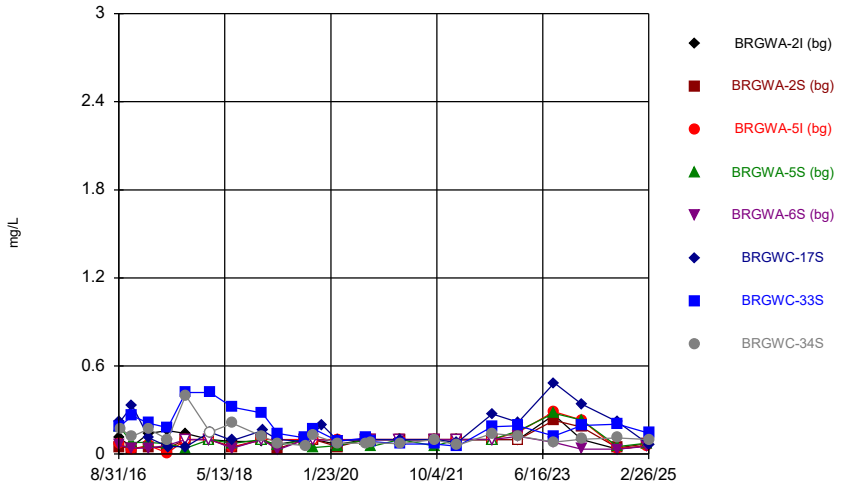


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

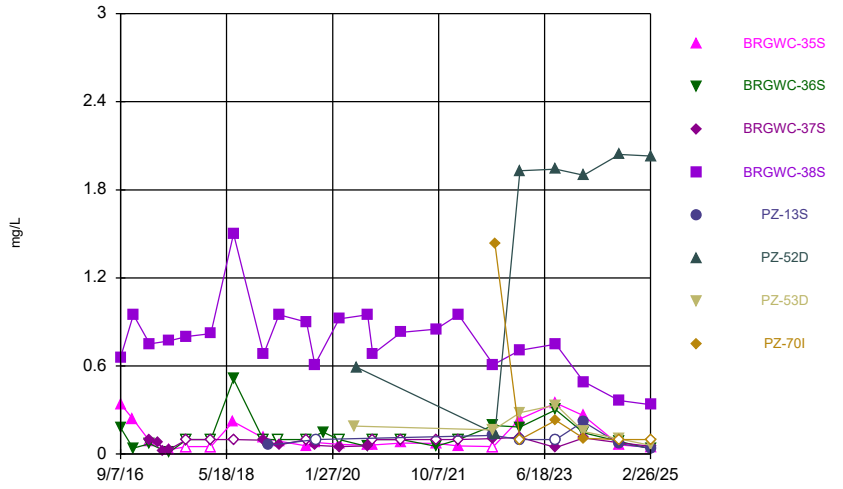


Constituent: Fluoride Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

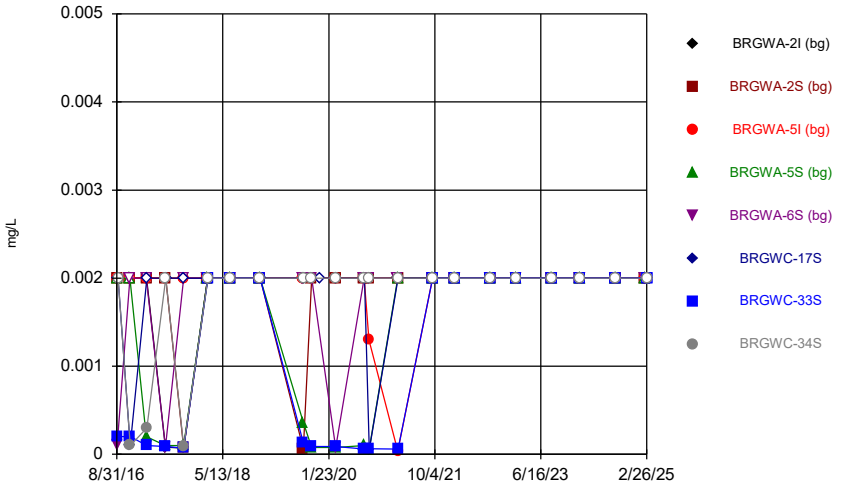


Constituent: Fluoride Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

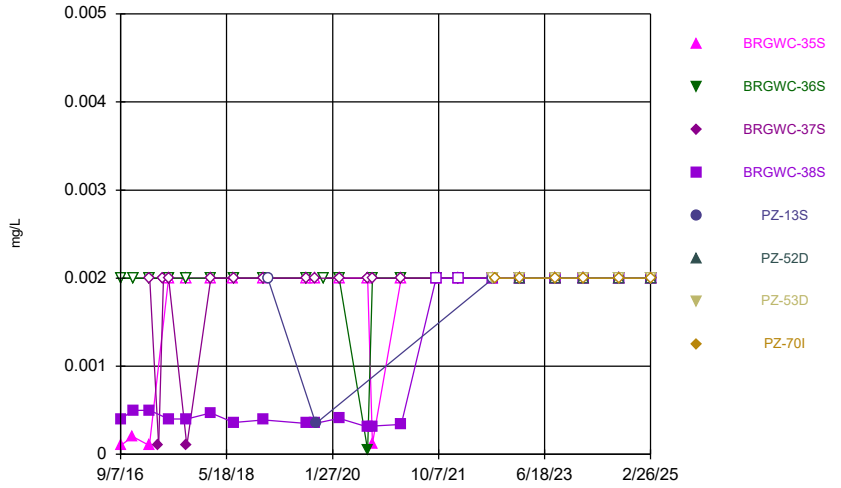
Time Series



Constituent: Lead Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

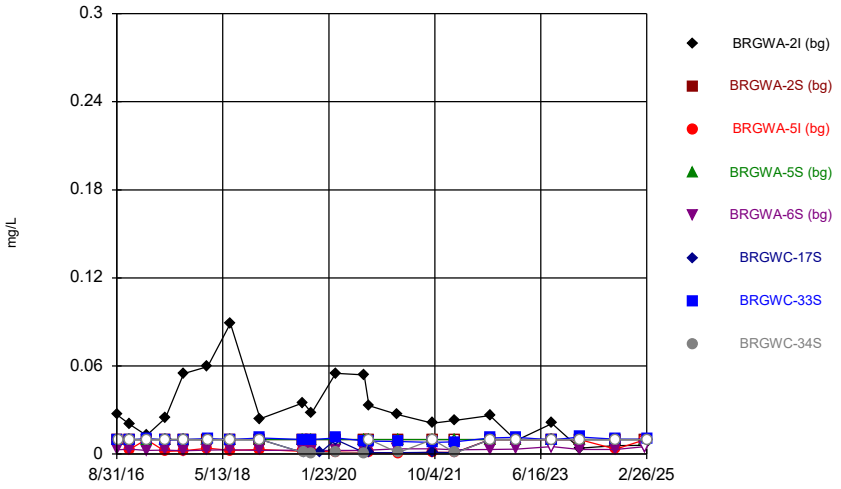
Time Series



Constituent: Lead Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

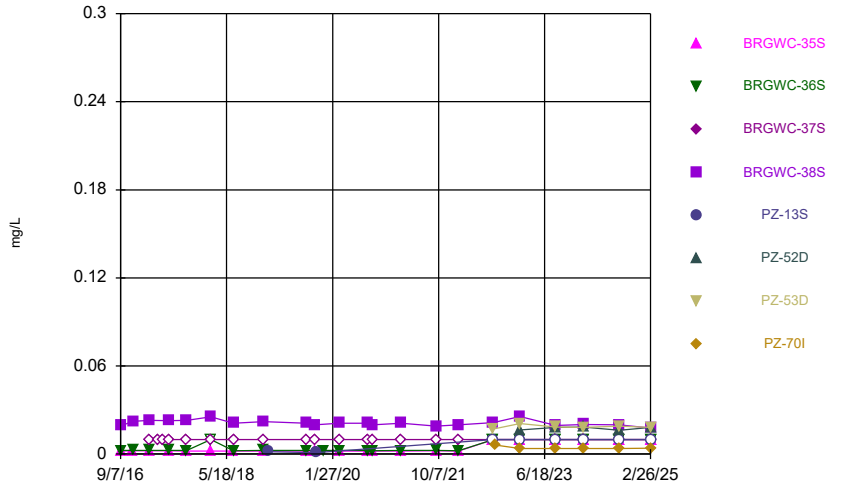
Time Series



Constituent: Lithium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

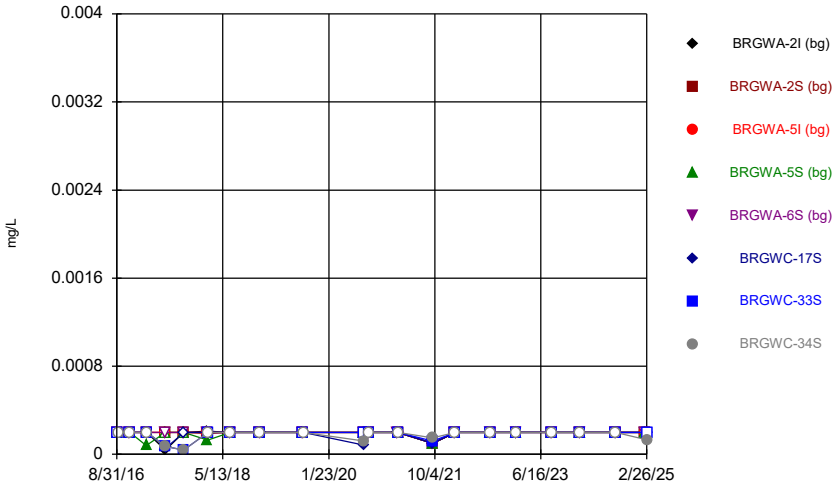
Time Series



Constituent: Lithium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

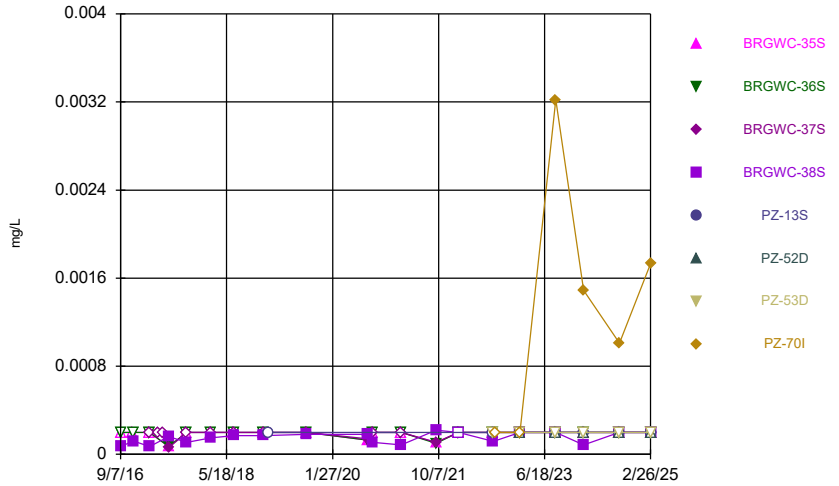
Time Series



Constituent: Mercury Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

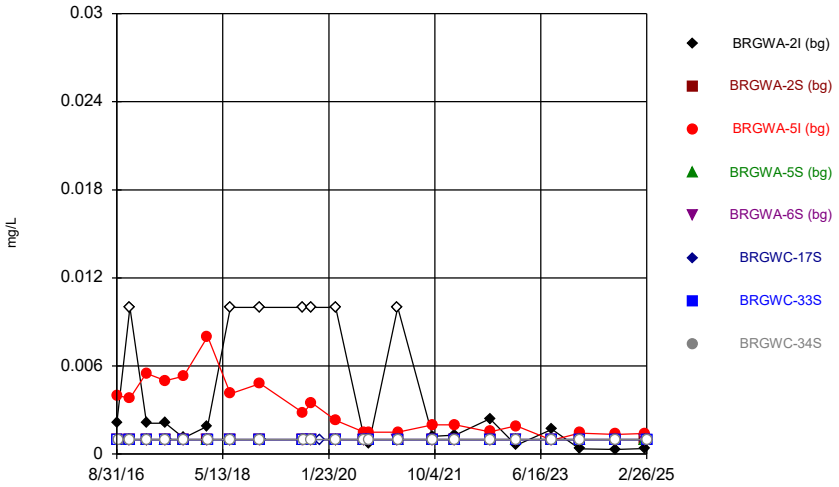
Time Series



Constituent: Mercury Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

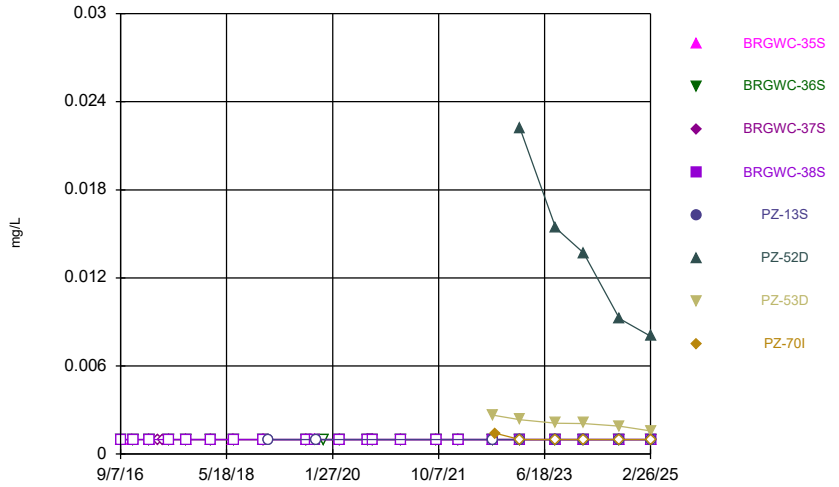
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

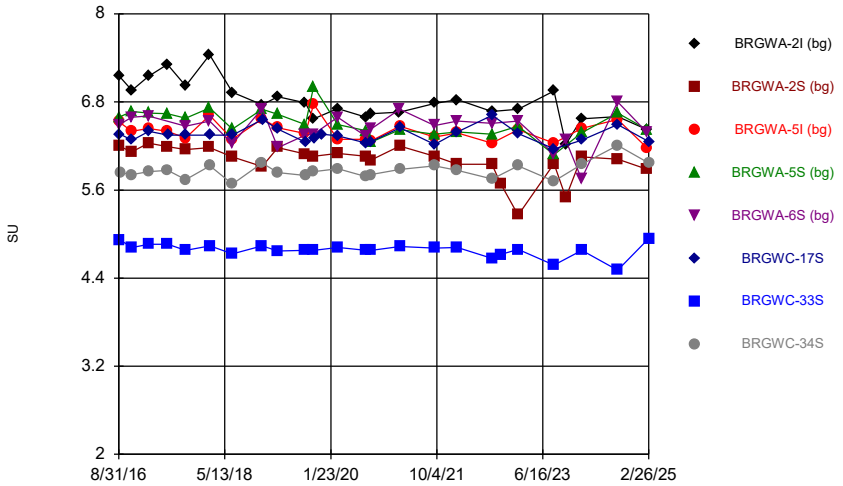
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

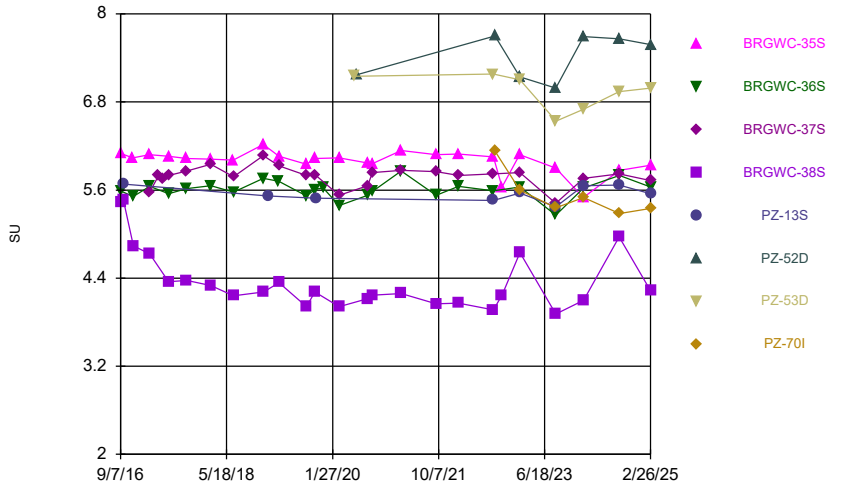


Constituent: pH, Field Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series



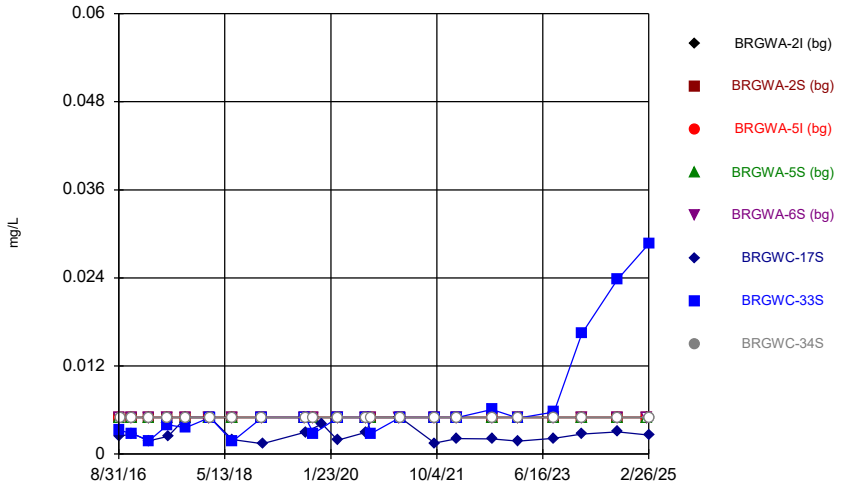
Constituent: pH, Field Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



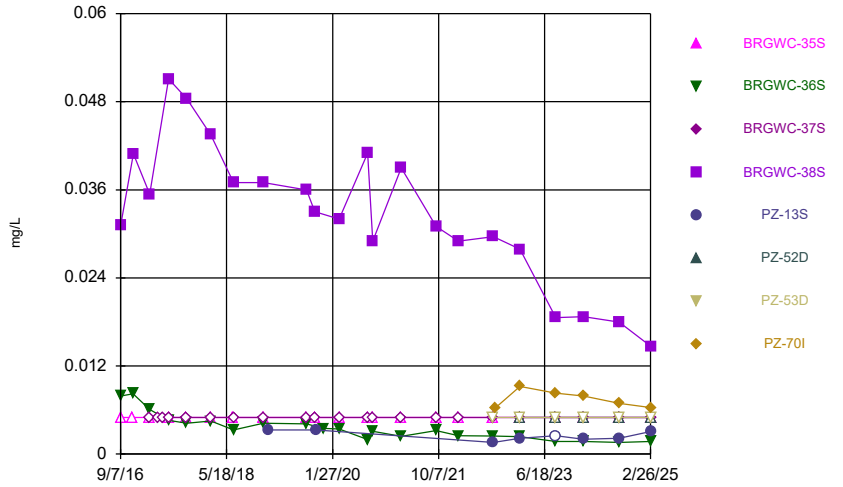
Constituent: Selenium Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

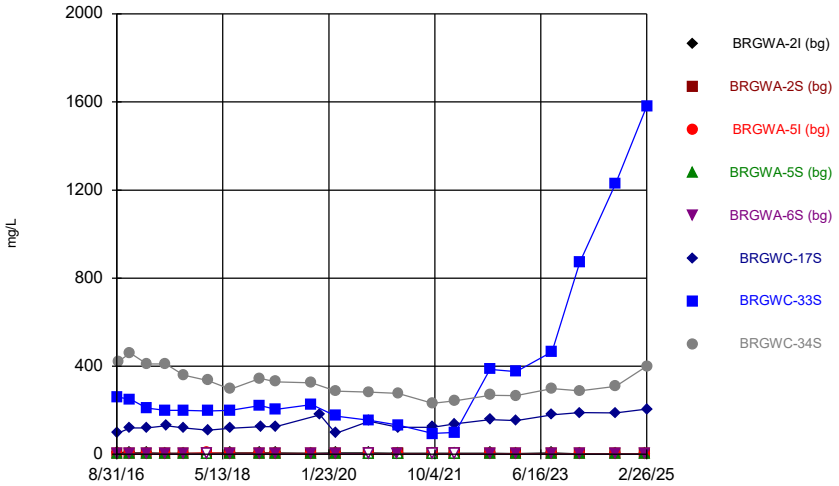


Constituent: Selenium Analysis Run 5/21/2025 12:27 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

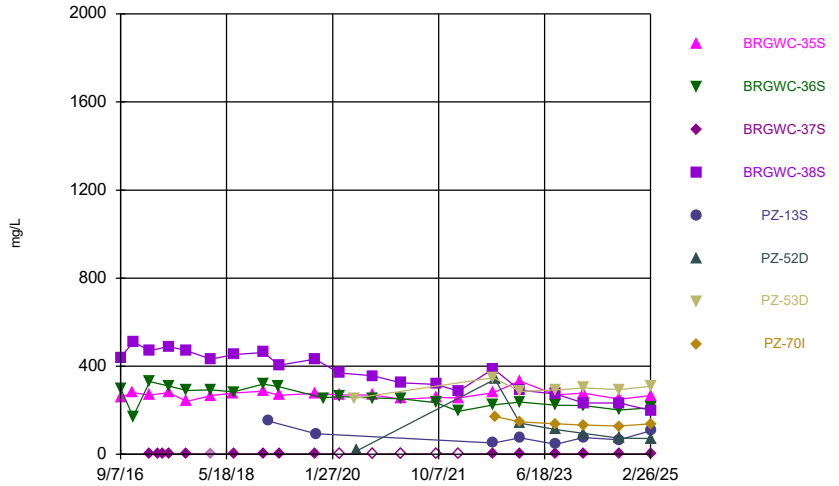
Time Series



Constituent: Sulfate Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

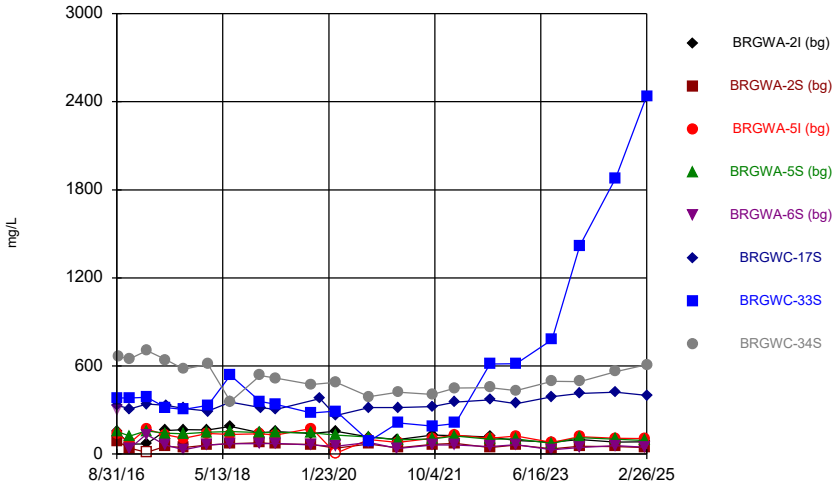
Time Series



Constituent: Sulfate Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

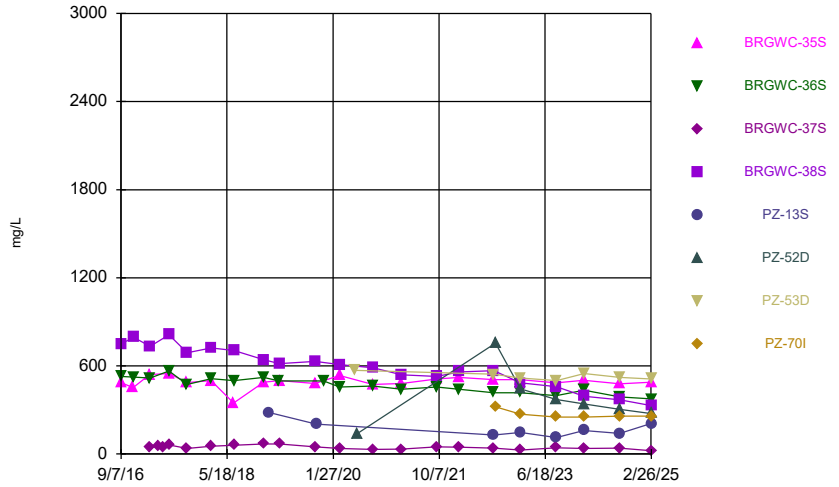
Time Series



Constituent: TDS Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

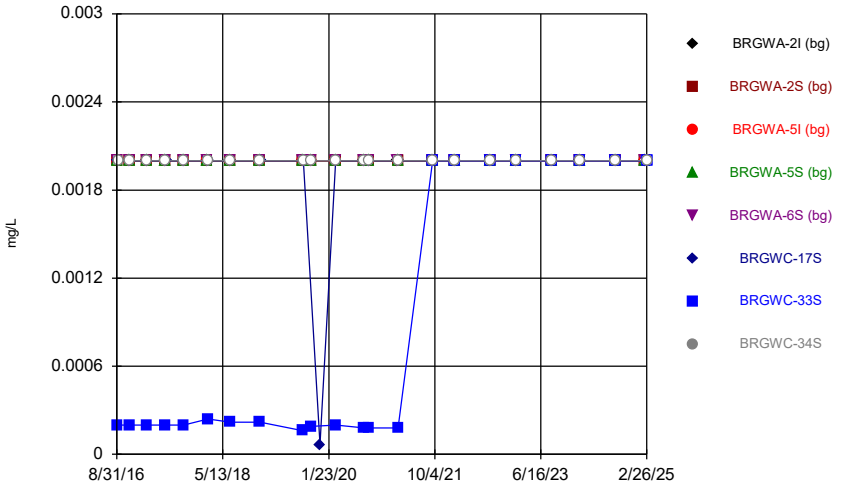
Time Series



Constituent: TDS Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

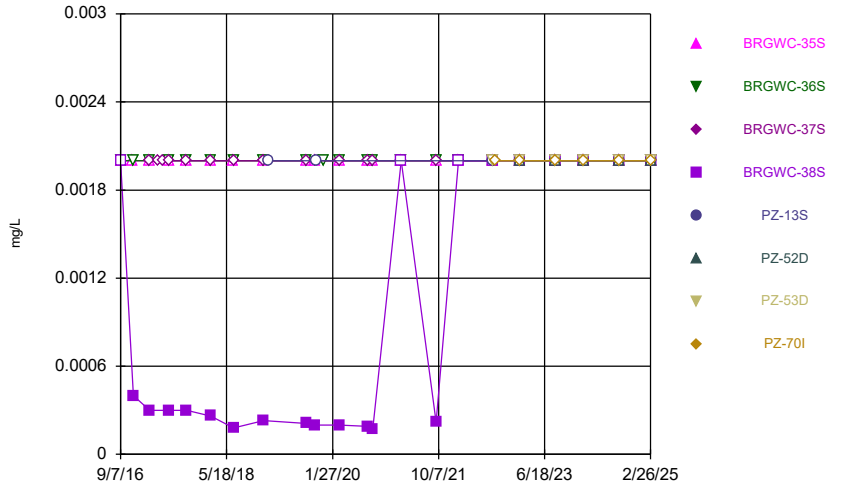
Time Series



Constituent: Thallium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/21/2025 12:27 PM
Plant Branch Client: Southern Company Data: Branch Pond E

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0009 (J)	<0.003	<0.003	<0.003				
9/1/2016					<0.003			
9/7/2016						<0.003	<0.003	
9/8/2016								<0.003
11/15/2016				<0.003	<0.003			
11/16/2016	<0.003	<0.003	<0.003					
11/17/2016						<0.003	<0.003	<0.003
2/20/2017			<0.003	<0.003	<0.003			
2/21/2017	<0.003	<0.003						
2/22/2017						<0.003	<0.003	<0.003
6/12/2017	<0.003		<0.003	<0.003	<0.003			
6/13/2017		0.0011 (J)						
6/14/2017							<0.003	<0.003
6/15/2017						0.0009 (J)		
9/26/2017	<0.003	<0.003	<0.003	<0.003	<0.003			
9/27/2017							<0.003	<0.003
9/28/2017						<0.003		
2/13/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
2/15/2018						<0.003	<0.003	<0.003
6/26/2018	<0.003	<0.003	<0.003	<0.003	<0.003			
6/27/2018						<0.003	<0.003	<0.003
12/18/2018	<0.003	<0.003	<0.003	0.00087 (J)	<0.003		<0.003	<0.003
12/19/2018						<0.003		
8/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/28/2019						<0.003		<0.003
10/15/2019	0.00047 (J)	<0.003	<0.003	<0.003	<0.003			
10/16/2019							<0.003	<0.003
12/3/2019						<0.003		
3/3/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
3/5/2020							<0.003	<0.003
8/18/2020	0.00054 (J)	0.00042 (J)	<0.003	0.0016 (J)	<0.003			
8/19/2020						<0.003	<0.003	<0.003
9/15/2020	<0.003	<0.003	<0.003	<0.003	<0.003			
9/16/2020						<0.003	<0.003	<0.003
3/1/2021	<0.003				<0.003			
3/2/2021		<0.003	<0.003	<0.003				
3/3/2021							<0.003	<0.003
3/4/2021						<0.003		
9/21/2021			<0.003	<0.003				
9/22/2021	<0.003	<0.003			<0.003	<0.003	<0.003	<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/23/2022	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/24/2022						<0.003		<0.003
1/24/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/22/2023	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
8/23/2023						<0.003		
1/30/2024	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
1/31/2024							<0.003	<0.003
8/27/2024	<0.003	<0.003	<0.003	<0.003	<0.003			
8/28/2024						<0.003	<0.003	<0.003
2/18/2025	<0.003	<0.003	<0.003	<0.003	<0.003			
2/26/2025						<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	<0.003	<0.003		<0.003				
11/17/2016	<0.003							
11/18/2016		0.0016 (J)						
11/21/2016				0.0009 (J)				
2/22/2017	<0.003							
2/23/2017		<0.003	<0.003	<0.003				
4/17/2017			0.0004 (J)					
5/15/2017			<0.003					
6/15/2017	<0.003	0.0006 (J)	0.0006 (J)	0.0007 (J)				
9/28/2017	<0.003	<0.003	<0.003	<0.003				
2/15/2018	<0.003	<0.003	<0.003	<0.003				
6/27/2018	<0.003							
6/28/2018		<0.003	<0.003	<0.003				
12/19/2018	<0.003	<0.003	<0.003					
12/20/2018				<0.003				
1/15/2019					<0.003			
8/28/2019	<0.003	0.00035 (J)	<0.003					
8/29/2019				<0.003				
10/16/2019	<0.003		<0.003	<0.003				
10/22/2019					<0.003			
12/3/2019		0.00049 (J)						
3/5/2020	<0.003	<0.003	<0.003	<0.003				
8/19/2020	<0.003	<0.003	<0.003	<0.003				
9/16/2020	<0.003	<0.003	<0.003					
9/17/2020				<0.003				
3/3/2021		<0.003	<0.003					
3/4/2021	<0.003			<0.003				
9/22/2021		<0.003						
9/23/2021	<0.003		<0.003	<0.003				
2/1/2022	<0.003	<0.003		<0.003				
2/2/2022			<0.003					
8/23/2022			<0.003	<0.003	<0.003		<0.003	
8/24/2022	<0.003	<0.003						
9/1/2022								<0.003
1/24/2023	<0.003							
1/25/2023		<0.003	<0.003	<0.003		<0.003	<0.003	
1/26/2023					<0.003			<0.003
8/22/2023			<0.003		<0.003			
8/23/2023	<0.003	<0.003		<0.003		<0.003		<0.003
8/24/2023							<0.003	
1/30/2024	<0.003				<0.003			
1/31/2024		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003
8/27/2024			<0.003	<0.003	<0.003		<0.003	
8/28/2024	<0.003	<0.003				<0.003		<0.003
2/26/2025	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005			
9/7/2016						<0.005	<0.005	
9/8/2016								<0.005
11/15/2016				<0.005	<0.005			
11/16/2016	<0.005	<0.005	<0.005					
11/17/2016						<0.005	<0.005	<0.005
2/20/2017			<0.005	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017						<0.005	<0.005	<0.005
6/12/2017	0.0007 (J)		0.0007 (J)	0.0006 (J)	<0.005			
6/13/2017		<0.005						
6/14/2017							0.0006 (J)	<0.005
6/15/2017						0.0006 (J)		
9/26/2017	0.001 (J)	<0.005	0.0009 (J)	0.0007 (J)	0.0007 (J)			
9/27/2017							<0.005	<0.005
9/28/2017						<0.005		
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2018						<0.005	<0.005	<0.005
6/26/2018	0.00062 (J)	<0.005	<0.005	<0.005	<0.005			
6/27/2018						<0.005	<0.005	<0.005
12/18/2018	<0.005	0.00082 (J)	0.00097 (J)	0.0011 (J)	0.00092 (J)		0.00091 (J)	<0.005
12/19/2018						<0.005		
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
8/28/2019						0.00073 (J)		<0.005
10/15/2019	0.0008 (J)	0.00063 (J)	0.00058 (J)	0.00039 (J)	<0.005			
10/16/2019							0.00056 (J)	<0.005
12/3/2019						0.00058 (J)		
3/3/2020	0.0027 (J)	0.00098 (J)	0.0024 (J)	0.0027 (J)	0.0018 (J)	0.0033 (J)		
3/5/2020							<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/19/2020						<0.005	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
9/16/2020						<0.005	<0.005	<0.005
3/1/2021	<0.005				<0.005			
3/2/2021		<0.005	<0.005	<0.005				
3/3/2021							<0.005	<0.005
3/4/2021						<0.005		
9/21/2021			<0.005	<0.005				
9/22/2021	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
2/1/2022	0.0012 (J)	<0.005	0.0013 (J)	0.0012 (J)	<0.005	<0.005	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005		0.00262 (J)	
8/24/2022						<0.005		<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005	0.00201 (J)	<0.005
8/22/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
8/23/2023						<0.005		
1/30/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
1/31/2024							0.00516	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005			
8/28/2024						<0.005	0.00577	<0.005
2/18/2025	<0.005	<0.005	<0.005	<0.005	<0.005			
2/26/2025						<0.005	0.00896	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	<0.005	<0.005		0.0026 (J)				
11/17/2016	<0.005							
11/18/2016		<0.005						
11/21/2016				0.0034 (J)				
2/22/2017	<0.005							
2/23/2017		<0.005	<0.005	0.003 (J)				
4/17/2017			<0.005					
5/15/2017			<0.005					
6/15/2017	0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)				
9/28/2017	<0.005	<0.005	<0.005	0.0046 (J)				
2/15/2018	<0.005	<0.005	<0.005	0.0016 (J)				
6/27/2018	<0.005							
6/28/2018		0.00074 (J)	0.0011 (J)	0.0023 (J)				
12/19/2018	<0.005	<0.005	<0.005					
12/20/2018				0.00098 (J)				
1/15/2019					<0.005			
8/28/2019	0.00044 (J)	0.00045 (J)	0.00038 (J)					
8/29/2019				0.0013 (J)				
10/16/2019	0.0004 (J)		0.00078 (J)	0.0024 (J)				
10/22/2019					<0.005			
12/3/2019		0.001 (J)						
3/5/2020	<0.005	<0.005	0.00044 (J)	0.0011 (J)				
8/19/2020	<0.005	<0.005	<0.005	0.0021 (J)				
9/16/2020	<0.005	<0.005	<0.005					
9/17/2020				0.0015 (J)				
3/3/2021		<0.005	<0.005					
3/4/2021	<0.005			0.0029 (J)				
9/22/2021		<0.005						
9/23/2021	<0.005		<0.005	0.002 (J)				
2/1/2022	<0.005	<0.005		<0.005				
2/2/2022			<0.005					
8/23/2022			<0.005	0.00337 (J)	<0.005		<0.005	
8/24/2022	<0.005	<0.005						
9/1/2022								<0.005
1/24/2023	<0.005							
1/25/2023		<0.005	0.003 (J)	0.00486 (J)		0.00368 (J)	<0.005	
1/26/2023					0.00388 (J)			0.00366 (J)
8/22/2023			<0.005		<0.005			
8/23/2023	<0.005	<0.005		<0.005		<0.005		<0.005
8/24/2023							<0.005	
1/30/2024	<0.005				<0.005			
1/31/2024		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
8/27/2024			<0.005	<0.005	<0.005		<0.005	
8/28/2024	<0.005	<0.005				<0.005		<0.005
2/26/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0239	0.0099 (J)	0.0273	0.0495				
9/1/2016					0.0142			
9/7/2016						0.0377	0.0214	
9/8/2016								0.0415
11/15/2016				0.0512	0.0126			
11/16/2016	0.0147	0.0102	0.0365					
11/17/2016						0.0405	0.0211	0.04
2/20/2017			0.0336	0.0586	0.0142			
2/21/2017	0.0109	0.0094 (J)						
2/22/2017						0.0392	0.0243	0.0415
6/12/2017	0.0094 (J)		0.0322	0.0567	0.0134			
6/13/2017		0.0094 (J)						
6/14/2017							0.0218	0.0341
6/15/2017						0.0364		
9/26/2017	0.0156	0.0096 (J)	0.0364	0.0586	0.0133			
9/27/2017							0.0219	0.0347
9/28/2017						0.0408		
2/13/2018	0.0134	0.0102	0.054	0.054	0.0145			
2/15/2018						0.0396	0.0248	0.0346
6/26/2018	0.014	0.0093 (J)	0.032	0.063	0.014			
6/27/2018						0.041	0.023	0.028
12/18/2018	0.0076 (J)	0.01	0.038	0.045	0.013		0.023	0.029
12/19/2018						0.038		
8/27/2019	0.012	0.0095 (J)	0.028	0.056	0.013		0.02	
8/28/2019						0.044		0.026
10/15/2019	0.013	0.0091 (J)	0.032	0.049	0.013			
10/16/2019							0.019	0.022
12/3/2019						0.043		
3/3/2020	0.017	0.011	0.028	0.051	0.019	0.036		
3/5/2020							0.022	0.025
8/18/2020	0.01 (J)	0.01	0.022	0.04	0.014			
8/19/2020						0.047	0.02	0.024
9/15/2020	0.0083 (J)	0.0094 (J)	0.022	0.038	0.013			
9/16/2020						0.044	0.019	0.023
3/1/2021	0.0074				0.016			
3/2/2021		0.0094	0.023	0.037				
3/3/2021							0.02	0.024
3/4/2021						0.039		
9/21/2021			0.025	0.038				
9/22/2021	0.0075	0.0097			0.014	0.043	0.019	0.021
2/1/2022	0.0066	0.01	0.028	0.04	0.014	0.045	0.023	0.024
8/23/2022	0.00954	0.012	0.0241	0.0379	0.014		0.0409	
8/24/2022						0.0512		0.0249
1/24/2023	0.00453	0.0118	0.0303	0.0394	0.0132	0.0422	0.0368	0.0232
8/22/2023	0.0068	0.0135	0.0245	0.0352	0.0143		0.0357	0.0268
8/23/2023						0.0445		
1/30/2024	0.0124	0.0137	0.0296	0.0396	0.0151	0.0522		
1/31/2024							0.0515	0.0261
8/27/2024	0.00493	0.0132	0.0314	0.0362	0.0159			
8/28/2024						0.0502	0.0511	0.0281
2/18/2025	0.00462	0.0131	0.032	0.0334	0.0142			
2/26/2025						0.0508	0.0543	0.0329

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	0.101	0.0674		0.044				
11/17/2016	0.0808							
11/18/2016		0.0546						
11/21/2016				0.0428 (J)				
2/22/2017	0.0701							
2/23/2017		0.0489	0.0229	0.0338				
4/17/2017			0.0227					
5/15/2017			0.0227					
6/15/2017	0.0518	0.0415	0.0218	0.0239				
9/28/2017	0.047	0.0397	0.0222	0.0247				
2/15/2018	0.0485	0.038	0.0243	0.0215				
6/27/2018	0.046							
6/28/2018		0.035	0.023	0.018				
12/19/2018	0.04	0.035	0.024					
12/20/2018				0.017				
1/15/2019					0.14			
8/28/2019	0.039	0.034	0.027					
8/29/2019				0.016				
10/16/2019	0.037		0.024	0.015				
10/22/2019					0.077			
12/3/2019		0.031						
3/5/2020	0.039	0.033	0.025	0.016				
8/19/2020	0.04	0.037	0.026	0.016				
9/16/2020	0.033	0.03	0.024					
9/17/2020				0.014				
3/3/2021		0.031	0.024					
3/4/2021	0.034			0.015				
9/22/2021		0.028						
9/23/2021	0.036		0.027	0.014				
2/1/2022	0.033	0.029		0.015				
2/2/2022			0.025					
8/23/2022			0.026	0.0141	0.0562		0.0547	
8/24/2022	0.0339	0.0296						
9/1/2022								0.0444
1/24/2023	0.0291							
1/25/2023		0.0278	0.0247	0.018		0.0171	0.0536	
1/26/2023					0.0525			0.025
8/22/2023			0.0266		0.0683			
8/23/2023	0.0286	0.0243		0.0134		0.0163		0.0196
8/24/2023							0.0485	
1/30/2024	0.0299				0.0499			
1/31/2024		0.0273	0.0256	0.016		0.0184	0.0517	0.0207
8/27/2024			0.027	0.0164	0.0543		0.0535	
8/28/2024	0.0267	0.0247				0.0156		0.0198
2/26/2025	0.0291	0.0267	0.0264	0.017	0.052	0.0163	0.0523	0.0202

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005				
9/1/2016					<0.0005			
9/7/2016						<0.0005	0.0019 (J)	
9/8/2016								0.0001 (J)
11/15/2016				<0.0005	<0.0005			
11/16/2016	<0.0005	<0.0005	<0.0005					
11/17/2016						<0.0005	0.002 (J)	0.0001 (J)
2/20/2017			<0.0005	<0.0005	<0.0005			
2/21/2017	<0.0005	<0.0005						
2/22/2017						<0.0005	0.0022 (J)	0.0002 (J)
6/12/2017	<0.0005		<0.0005	<0.0005	<0.0005			
6/13/2017		<0.0005						
6/14/2017							0.0019 (J)	<0.0005
6/15/2017						<0.0005		
9/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
9/27/2017							0.0017 (J)	0.0001 (J)
9/28/2017						<0.0005		
2/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/15/2018						<0.0005	<0.003	<0.0005
6/26/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
6/27/2018						<0.0005	0.002 (J)	0.00013 (J)
12/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0021 (J)	0.00012 (J)
12/19/2018						<0.0005		
8/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0019 (J)	
8/28/2019						<0.0005		0.00014 (J)
10/15/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
10/16/2019							0.0018 (J)	0.00014 (J)
10/17/2019						<0.0005		
12/3/2019						<0.0005		
3/3/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3/5/2020							0.0018 (J)	0.00015 (J)
8/18/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/19/2020						<0.0005	0.0014 (J)	0.00015 (J)
9/15/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
9/16/2020						<0.0005	0.0015 (J)	0.00014 (J)
3/1/2021	<0.0005				<0.0005			
3/2/2021		<0.0005	<0.0005	<0.0005				
3/3/2021							0.0013	0.00015 (J)
3/4/2021						<0.0005		
9/21/2021			<0.0005	<0.0005				
9/22/2021	<0.0005	<0.0005			<0.0005	<0.0005	0.0012	0.00015 (J)
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	0.00015 (J)
8/23/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.00241	
8/24/2022						<0.0005		<0.0005
1/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00235	<0.0005
8/22/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.0019	<0.0005
8/23/2023						<0.0005		
1/30/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
1/31/2024							0.00269	0.000202 (J)
8/27/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/28/2024						<0.0005	0.00209	0.000205 (J)
2/18/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
2/26/2025						<0.0005	0.00181	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	9E-05 (J)	<0.0005		0.0079				
9/23/2016				0.0096				
11/17/2016	0.0001 (J)							
11/18/2016		0.0001 (J)						
11/21/2016				0.0092				
2/22/2017	0.0001 (J)							
2/23/2017		0.0001 (J)	<0.0005	0.01				
4/17/2017			<0.0005					
5/15/2017			<0.0005					
6/15/2017	0.0001 (J)	9E-05 (J)	<0.0005	0.0104				
9/28/2017	0.0001 (J)	0.0001 (J)	<0.0005	0.0098				
2/15/2018	<0.0005	<0.0005	<0.0005	0.011 (J)				
6/27/2018	0.00015 (J)							
6/28/2018		8.1E-05 (J)	<0.0005	0.0085				
12/19/2018	0.00014 (J)	8.6E-05 (J)	<0.0005					
12/20/2018				0.0092				
1/15/2019					0.0005 (J)			
8/28/2019	0.00016 (J)	0.00011 (J)	<0.0005					
8/29/2019				0.0088				
10/16/2019	0.00015 (J)		<0.0005	0.0079				
10/17/2019		<0.0005						
10/22/2019					0.0004 (J)			
12/3/2019		9.7E-05 (J)						
3/5/2020	0.00015 (J)	9.2E-05 (J)	<0.0005	0.0082				
6/4/2020							<0.0005	
6/19/2020						<0.0005		
8/19/2020	0.00015 (J)	0.00011 (J)	<0.0005	0.0079				
9/16/2020	0.00014 (J)	8E-05 (J)	<0.0005					
9/17/2020				0.0073				
3/3/2021		7.9E-05 (J)	<0.0005					
3/4/2021	0.00012 (J)			0.0077				
9/22/2021		8.4E-05 (J)						
9/23/2021	0.00016 (J)		<0.0005	0.0071				
2/1/2022	0.00015 (J)	8.7E-05 (J)		0.0072				
2/2/2022			<0.0005					
8/23/2022			<0.0005	0.00854	0.000331 (J)		<0.0005	
8/24/2022	0.00021 (J)	<0.0005						
9/1/2022								<0.0005
1/24/2023	<0.0005							
1/25/2023		<0.0005	<0.0005	0.0078		<0.0005	<0.0005	
1/26/2023					0.000422 (J)			0.000217 (J)
8/22/2023			<0.0005		0.000259 (J)			
8/23/2023	0.0002 (J)	<0.0005		0.0068		<0.0005		0.000325 (J)
8/24/2023							<0.0005	
1/30/2024	<0.0005				0.000388 (J)			
1/31/2024		<0.0005	<0.0005	0.00591		<0.0005	<0.0005	0.00034 (J)
8/27/2024			<0.0005	0.00644	0.000346 (J)		<0.0005	
8/28/2024	<0.0005	<0.0005				<0.0005		0.000344 (J)
2/26/2025	<0.0005	<0.0005	<0.0005	0.00515	0.000457 (J)	<0.0005	<0.0005	0.00037 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.015				
9/1/2016					<0.015			
9/7/2016						0.0449 (J)	1.15	
9/8/2016								1.89
11/15/2016				0.0085 (J)	0.0123 (J)			
11/16/2016	0.0117 (J)	0.0109 (J)	0.0187 (J)					
11/17/2016						0.0067 (J)	1.08	2.17
2/20/2017			0.0066 (J)	0.0093 (J)	0.0157 (J)			
2/21/2017	0.0088 (J)	<0.015						
2/22/2017						<0.04	1.44	2.09
6/12/2017	0.0133 (J)		<0.015	<0.015	<0.015			
6/13/2017		<0.015						
6/14/2017							1.16	2.45
6/15/2017						<0.04		
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.015	<0.015			
9/27/2017							1.04	2.4
9/28/2017						<0.04		
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.015	<0.015			
2/15/2018						<0.04	1.22	2.55
6/26/2018	0.012 (J)	<0.015	0.0042 (J)	0.0056 (J)	0.0041 (J)			
6/27/2018						0.0088 (J)	0.96	2.2
12/18/2018	0.0086 (J)	<0.015	<0.015	0.0062 (J)	<0.015		1.2	2.2
12/19/2018						0.0045 (J)		
3/19/2019	0.0055 (J)	<0.015	<0.015	<0.015	<0.015	<0.04		
3/20/2019							1.3	2.3
10/15/2019	0.0067 (J)	<0.015	<0.015	0.006 (J)	0.01 (J)			
10/16/2019							1.1	2.3
10/17/2019						<0.04		
12/3/2019						0.0063 (J)		
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.015	<0.015	0.0075 (J)		
3/5/2020							1.5	2.1
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015			
9/16/2020						0.0066 (J)	1.1	2.2
3/1/2021	<0.015				<0.015			
3/2/2021		<0.015	0.0053 (J)	0.0071 (J)				
3/3/2021							1.1	2.1
3/4/2021						<0.04		
9/21/2021			<0.015	<0.015				
9/22/2021	<0.015	<0.015			<0.015	0.02 (J)	1.1	2.2
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	0.013 (J)	1.1	2.2
8/23/2022	0.00592 (J)	0.00532 (J)	<0.015	0.00538 (J)	<0.015		0.975	
8/24/2022						0.0273		2.45
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	0.0326	1.19	2.21
8/22/2023	0.00649 (J)	0.00738 (J)	0.0073 (J)	0.00764 (J)	0.00611 (J)		0.946	1.9
8/23/2023						0.0601		
1/30/2024	<0.015	<0.015	<0.015	<0.015	<0.015	0.0758		
1/31/2024							1.28	2.14
8/27/2024	<0.015	<0.015	<0.015	0.00538 (J)	<0.015			
8/28/2024						0.0721	1.25	1.88
2/18/2025	<0.015	<0.015	0.00591 (J)	0.00548 (J)	<0.015			
2/26/2025						0.0756	2.04	2.19

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	1.06	0.725		1.73				
11/17/2016	0.967							
11/18/2016		0.831						
11/21/2016				2.02				
2/22/2017	1.35							
2/23/2017		0.949	<0.015	1.77				
4/17/2017			<0.015					
5/15/2017			<0.015					
6/15/2017	1.49	0.961	<0.015	1.78				
9/28/2017	1.27	0.948	<0.015	1.45				
2/15/2018	1.58	1.11	<0.015	2.09				
6/27/2018	1.7							
6/28/2018		0.89	0.0067 (J)	1.5				
12/19/2018	1.8	1.1	<0.015					
12/20/2018				1.7				
1/15/2019					<0.015			
3/19/2019		1						
3/20/2019	1.7		0.004 (J)	1.5				
10/16/2019	2.2		0.0055 (J)	1.5				
10/17/2019		1.1						
10/22/2019					0.0098 (J)			
12/3/2019		1						
3/5/2020	1.9	1.1	0.0076 (J)	1.6				
6/4/2020							0.52	
6/19/2020						0.028 (J)		
9/16/2020	1.9	0.99	0.0062 (J)					
9/17/2020				1.4				
3/3/2021		1	<0.015					
3/4/2021	1.9			1.5				
9/22/2021		1.1						
9/23/2021	2		<0.015	1.4				
2/1/2022	2.1	1		1.6				
2/2/2022			0.032 (J)					
8/23/2022			<0.015	1.67	<0.015		1.04	
8/24/2022	2.23	1.1						
9/1/2022						0.0403		1.2
1/24/2023	2.23							
1/25/2023		1.18	<0.015	1.63		0.0362	1.11	
1/26/2023					0.0104 (J)			1.04
8/22/2023			0.00802 (J)		0.00855 (J)			
8/23/2023	2.36	1.04		1.37		0.0668		1.01
8/24/2023							1.06	
1/30/2024	2.39				0.00656 (J)			
1/31/2024		1.12	<0.015	1.26		0.0633	1.03	1.06
8/27/2024			<0.015	1.31	<0.015		0.989	
8/28/2024	2.1	1.04				0.0751		0.898
2/26/2025	2.58	1.21	0.00753 (J)	1.15	0.014 (J)	0.0842	1.21	1.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.001	<0.001	<0.001	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	0.0005 (J)	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.001	<0.001	<0.001					
11/17/2016						<0.001	0.0005 (J)	0.0009 (J)
2/20/2017			<0.001	<0.001	<0.001			
2/21/2017	<0.001	<0.001						
2/22/2017						<0.001	0.0006 (J)	0.0005 (J)
6/12/2017	<0.001		<0.001	<0.001	<0.001			
6/13/2017		<0.001						
6/14/2017							0.0004 (J)	0.0004 (J)
6/15/2017						<0.001		
9/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001			
9/27/2017							0.0004 (J)	0.0007 (J)
9/28/2017						<0.001		
2/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
2/15/2018						<0.001	<0.001	<0.001
6/26/2018	<0.001	<0.001	<0.001	<0.001	<0.001			
6/27/2018						<0.001	0.00038 (J)	0.00017 (J)
12/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001		0.00046 (J)	0.00023 (J)
12/19/2018						<0.001		
8/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001		0.00032 (J)	
8/28/2019						<0.001		0.00025 (J)
10/15/2019	<0.001	<0.001	<0.001	<0.001	<0.001			
10/16/2019							0.00039 (J)	0.0004 (J)
10/17/2019						<0.001		
12/3/2019						<0.001		
3/3/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2020							0.00038 (J)	0.00018 (J)
8/18/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
8/19/2020						<0.001	0.00029 (J)	0.00018 (J)
9/15/2020	<0.001	<0.001	<0.001	<0.001	<0.001			
9/16/2020						<0.001	0.00032 (J)	0.00017 (J)
3/1/2021	<0.001				<0.001			
3/2/2021		<0.001	<0.001	<0.001				
3/3/2021							0.00022 (J)	0.00015 (J)
3/4/2021						<0.001		
9/21/2021			<0.001	<0.001				
9/22/2021	<0.001	<0.001			<0.001	<0.001	0.00019 (J)	0.00033 (J)
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00023 (J)	0.00012 (J)
8/23/2022	<0.001	<0.001	<0.001	<0.001	<0.001		0.000509 (J)	
8/24/2022						<0.001		0.000517 (J)
1/24/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000482 (J)	<0.001
8/22/2023	<0.001	<0.001	<0.001	<0.001	<0.001		0.000533 (J)	<0.001
8/23/2023						<0.001		
1/30/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1/31/2024							0.000792 (J)	<0.001
8/27/2024	<0.001	<0.001	<0.001	<0.001	<0.001			
8/28/2024						<0.001	0.000807 (J)	<0.001
2/18/2025	<0.001	<0.001	<0.001	<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
2/26/2025						<0.001	0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	<0.001	8E-05 (J)		0.0004 (J)				
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016				0.0005 (J)				
2/22/2017	<0.001							
2/23/2017		0.0001 (J)	<0.001	0.0007 (J)				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	<0.001	<0.001	<0.001	0.0006 (J)				
9/28/2017	<0.001	<0.001	<0.001	0.0007 (J)				
2/15/2018	<0.001	<0.001	<0.001	0.00069 (J)				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	0.00056 (J)				
12/19/2018	<0.001	0.00011 (J)	<0.001					
12/20/2018				0.00062 (J)				
1/15/2019					0.00011 (J)			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				0.00053 (J)				
10/16/2019	<0.001		<0.001	0.00057 (J)				
10/17/2019		<0.001						
10/22/2019					<0.001			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	0.00059 (J)				
8/19/2020	<0.001	<0.001	<0.001	0.00056 (J)				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				0.0005 (J)				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			0.00042 (J)				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	0.00048 (J)				
2/1/2022	<0.001	<0.001		0.00058				
2/2/2022			<0.001					
8/23/2022			<0.001	0.000459 (J)	<0.001		<0.001	
8/24/2022	<0.001	<0.001						
9/1/2022								<0.001
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	0.00043 (J)		<0.001	<0.001	
1/26/2023					<0.001			<0.001
8/22/2023			<0.001		<0.001			
8/23/2023	<0.001	<0.001		0.00041 (J)		<0.001		<0.001
8/24/2023							<0.001	
1/30/2024	<0.001				<0.001			
1/31/2024		<0.001	<0.001	0.000342 (J)		<0.001	<0.001	<0.001
8/27/2024			<0.001	0.000341 (J)	<0.001		<0.001	
8/28/2024	<0.001	<0.001				<0.001		<0.001
2/26/2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	12.6	4.09	13.5	19.6				
9/1/2016					3.3			
9/7/2016						26.3	53.4	
9/8/2016								97.3
11/15/2016				21.7	3.44			
11/16/2016	12.1	4.25	14.9					
11/17/2016						31.8	41.3	97.6
2/20/2017			13.9	21.1	3.52			
2/21/2017	11.4	4.02						
2/22/2017						33.5	53.1	106
6/12/2017	9.34		13.7	21.5	3.11			
6/13/2017		3.84						
6/14/2017							47.1	98
6/15/2017						29		
9/26/2017	14.3	3.31	14.4	24	3.15			
9/27/2017							49.5	95.8
9/28/2017						34.1		
2/13/2018	<25	3.94	<25	<25	3.65			
2/15/2018						33.8	50.9	100
6/26/2018	16 (J)	3.6	13.5 (J)	23.5 (J)	3.3			
6/27/2018						34.1	55.1	90.1
12/18/2018	14.5 (J)	3.8	16.4 (J)	19.8 (J)	3.5		52.7	85.1
12/19/2018						33.1		
3/19/2019	14.3 (J)	3.9	12.3 (J)	21.4 (J)	3.6	31.6		
3/20/2019							51.4	82
10/15/2019	15.1	3.7	14.4	20	3.5			
10/16/2019							46.5	78.2
12/3/2019						37.7		
3/3/2020	20	4	14.9	23.2	5	29.7		
3/5/2020							48.1	89.6
9/15/2020	14.1	3.9	12.7	16.8	3.7			
9/16/2020						37.9	37.9	77.7
3/1/2021	15.4				4.2			
3/2/2021		4	13.2	16.8				
3/3/2021							37.5	88.6
3/4/2021						41.2		
9/21/2021			14.1	19.1				
9/22/2021	15.9	4.3			4.1	36.4	28.9	76.9
2/1/2022	14.4	4.4	14.5	19.1	4.2	41.5	34.3	81.7
8/23/2022	13.9	4.65	14.3	18.2	3.97		119	
8/24/2022						43.6		75
1/24/2023	14.2	4.86	15.8	19.4	3.9	41.3	116	80
8/22/2023	12.6	5.02	14.3	14.9	3.79		135	83.4
8/23/2023						47.9		
1/30/2024	14.1	5.25	16	18.2	4.27	53.3		
1/31/2024							281	99.2
8/27/2024	12.4	5.45	15.9	17.2	4.19			
8/28/2024						46.4	369	95.9
2/18/2025	13.8	5.76	16.9	16.5	4.11			
2/26/2025						49.9	443	127

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	54.1	50.6		45.9				
11/17/2016	62.6							
11/18/2016		53.9						
11/21/2016				46.4				
2/22/2017	64.6							
2/23/2017		51	3.26	43.5				
4/17/2017			3.23					
5/15/2017			2.97					
6/15/2017	61.3	53.8	3.15	45.3				
9/28/2017	60.8	51.8	3.26	45.1				
2/15/2018	56.6	50.1	3.39	45.3				
6/27/2018	66.2							
6/28/2018		51	3.1	45.9				
12/19/2018	64.4	57.1	3.6					
12/20/2018				41.8				
1/15/2019					23.5 (J)			
3/19/2019		49.5						
3/20/2019	61.8		3.3	38.2				
10/16/2019	61.2		3.4	38.4				
10/22/2019					14.8			
12/3/2019		47.8						
3/5/2020	69.9	51.7	3.7	39.8				
6/4/2020							61.2	
6/19/2020						19.6		
9/16/2020	61.8	45.9	3.2					
9/17/2020				33.1				
3/3/2021		53	3.6					
3/4/2021	71.8			41				
9/22/2021		53.7						
9/23/2021	70.5		3.7	36.8				
2/1/2022	73.8	49.7		37.8				
2/2/2022			3.7					
8/23/2022			3.7	37.1	9.69		76.4	
8/24/2022	68.5	48.1						
9/1/2022						69		42.6
1/24/2023	67.5							
1/25/2023		48.2	3.65	32.8		46.3	78.5	
1/26/2023					16.8			33.4
8/22/2023			3.47		8.74			
8/23/2023	71.4	43.4		28.7		46.7		31.4
8/24/2023							74.4	
1/30/2024	68.9				15.9			
1/31/2024		44.4	3.54	23.7		45.6	81.7	31.6
8/27/2024			3.64	26.7	14		80	
8/28/2024	59.5	41				44.5		31.4
2/26/2025	67.8	42.5	3.77	20.9	22	48.6	87.6	32.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	2.3	2	4.4	3.6				
9/1/2016					2.5			
9/7/2016						3.7	5.3	
9/8/2016								7.2
11/15/2016				4	2.3			
11/16/2016	2	1.8	4.4					
11/17/2016						4	5.3	7.6
2/20/2017			4.8	3.9	2.4			
2/21/2017	2	1.8						
2/22/2017						3.6	0.12 (J)	7.1
6/12/2017	2.1		4.2	3.8	2.2			
6/13/2017		1.7						
6/14/2017							4.5	7.3
6/15/2017						3.7		
9/26/2017	2	1.8	4.4	4.1	2.3			
9/27/2017							5.4	7.6
9/28/2017						4.1		
2/13/2018	2.1	1.7	4.7	4.1	2.3			
2/15/2018						5.3	6.3	7.2
6/26/2018	2.4	2.2	4.5	4.1	2.6			
6/27/2018						4.2	4.5	7.1
12/18/2018	1.8	1.9	4.5	3.8	2.3		6.1	7.1
12/19/2018						4.9		
3/19/2019	2.5	2	4.5	4.2	2.6	5		
3/20/2019							6.2	6.9
10/15/2019	2.2	1.9	4.2	3.7	2.4			
10/16/2019							5.4	7.3
12/3/2019						4.8		
3/3/2020	1.9	1.9	3.9	3.6	2.9	3.8		
3/5/2020							4.8	6.4
9/15/2020	1.9	1.7	3.7	3.7	2.3			
9/16/2020						4.2	4.1	6.6
3/1/2021	1.8				2.1			
3/2/2021		1.7	3.8	3.7				
3/3/2021							3.9	6.4
3/4/2021						4.6		
9/21/2021			3.2	3.2				
9/22/2021	1.7	1.5			2.1	4.6	2.7	5.6
2/1/2022	1.8	1.6	3.5	3.4	2.1	4.9	13.1	5.9
8/23/2022	2.02	2.18	3.64	3.59	2.39		30.3	
8/24/2022						5		6.17
1/24/2023	2.09	2.16	3.93	3.56	2.3	6.31	29	7.5
8/22/2023	1.9	2.14	3.53	3.37	2.34		32.7	13.2
8/23/2023						5.18		
1/30/2024	2.35	2.14	3.98	3.52	3.23	5.69		
1/31/2024							65.3	15.7
8/27/2024	2.16	2.17	3.88	3.49	2.28			
8/28/2024						4.95	71.7	15.5
2/18/2025	2.09	2.09	4.05	3.34	2.25			
2/26/2025						5.96	96.1	23

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	5.8	3.1		5.8				
11/17/2016	6							
11/18/2016		3.4						
11/21/2016				5.1				
2/22/2017	5.6							
2/23/2017		3.2	2.1	4.1				
4/17/2017			1.8					
5/15/2017			1.8					
6/15/2017	5.8	4	1.9	4.8				
9/28/2017	6.2	4.6	1.9	6.7				
2/15/2018	6.2	5.4	2.3	8				
6/27/2018	5.9							
6/28/2018		9	2.1	5.5				
12/19/2018	6.2	6.2	1.9					
12/20/2018				8				
1/15/2019					2.4			
3/19/2019		7.1						
3/20/2019	6.6		2.3	6.6				
10/16/2019	6.6		2.3	6.4				
10/22/2019					2.1			
12/3/2019		7.7						
3/5/2020	5.8	7.6	1.8	5.8				
6/4/2020							29.6	
6/19/2020						8.4		
9/16/2020	6	7.9	1.8					
9/17/2020				6.1				
3/3/2021		8.1	1.9					
3/4/2021	5.8			5.6				
9/22/2021		7.1						
9/23/2021	6.1		1.9	6				
2/1/2022	6	7.6		5.8				
2/2/2022			1.8					
8/23/2022			1.97	6.42	4.2		4.94	
8/24/2022	6.53	7.96						
9/1/2022						6.24		10.8
1/24/2023	6.46							
1/25/2023		7.93	1.92	6.53			4.66	
1/26/2023					3.36	12.3		5.37
8/22/2023			1.89		2.73			
8/23/2023	6.21	8.26		6.44		6.9		5.75
8/24/2023							4.43	
1/30/2024	6.51				3.19			
1/31/2024		8.32	2	7		5.59	4.58	5.74
8/27/2024			1.9	6.53	3.03		4.37	
8/28/2024	6.21	7.81				4.15		4.99
2/26/2025	6.55	8.26	1.97	6.76	3.27	4.25	4.37	5.31

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.001 (J)	0.0034 (J)	0.0058 (J)	0.0028 (J)				
9/1/2016					0.0147			
9/7/2016						0.01 (J)	<0.01	
9/8/2016								<0.01
11/15/2016				0.003 (J)	0.0154			
11/16/2016	<0.01	0.0029 (J)	0.0051 (J)					
11/17/2016						0.0185	<0.01	<0.01
2/20/2017			0.0049 (J)	0.0047 (J)	0.014			
2/21/2017	<0.01	0.0036 (J)						
2/22/2017						0.0122	<0.01	<0.01
6/12/2017	0.0005 (J)		0.0052 (J)	0.0041 (J)	0.016			
6/13/2017		0.0038 (J)						
6/14/2017							<0.01	<0.01
6/15/2017						0.0117		
9/26/2017	0.0005 (J)	0.0045 (J)	0.0039 (J)	0.0037 (J)	0.0144			
9/27/2017							<0.01	<0.01
9/28/2017						0.0114		
2/13/2018	<0.01	<0.01	<0.01	<0.01	0.0144			
2/15/2018						0.011	<0.01	<0.01
6/26/2018	<0.01	0.008 (J)	0.0053 (J)	0.0043 (J)	0.015			
6/27/2018						0.0098 (J)	<0.01	<0.01
12/18/2018	<0.01	0.012	0.0032 (J)	0.0054 (J)	0.015		<0.01	<0.01
12/19/2018						0.0095 (J)		
8/27/2019	0.0004 (J)	0.0083 (J)	0.0055 (J)	0.0043 (J)	0.015		<0.01	
8/28/2019						0.013		<0.01
10/15/2019	<0.01	0.0083 (J)	0.0047 (J)	0.0055 (J)	0.014			
10/16/2019							0.00049 (J)	<0.01
12/3/2019						0.011		
3/3/2020	0.00047 (J)	0.0098 (J)	0.0069 (J)	0.0057 (J)	0.011	0.0081 (J)		
3/5/2020							<0.01	<0.01
8/18/2020	0.00096 (J)	0.0085 (J)	0.0069 (J)	0.005 (J)	0.015			
8/19/2020						0.012	<0.01	<0.01
9/15/2020	<0.01	0.0082 (J)	0.0069 (J)	0.0048 (J)	0.014			
9/16/2020						0.012	<0.01	<0.01
3/1/2021	<0.01				0.011			
3/2/2021		0.0074	0.0064	0.0044 (J)				
3/3/2021							<0.01	<0.01
3/4/2021						0.01		
9/21/2021			0.0064	0.0044 (J)				
9/22/2021	<0.01	0.0091			0.014	0.0091	<0.01	<0.01
2/1/2022	0.0013 (J)	0.0092	0.0066	0.0052	0.015	0.013	<0.01	<0.01
8/23/2022	<0.01	0.00908 (J)	0.00647 (J)	0.00435 (J)	0.0143		<0.01	
8/24/2022						0.0127		<0.01
1/24/2023	<0.01	0.0095 (J)	0.00513 (J)	0.00572 (J)	0.0139	0.00886 (J)	<0.01	<0.01
8/22/2023	<0.01	0.00921 (J)	0.00701 (J)	0.00472 (J)	0.0132		<0.01	<0.01
8/23/2023						0.0115		
1/30/2024	0.00458 (J)	0.00854 (J)	0.00551 (J)	0.00582 (J)	0.0139	0.011		
1/31/2024							<0.01	<0.01
8/27/2024	0.00445 (J)	0.00799 (J)	0.00521 (J)	0.00604 (J)	0.0124			
8/28/2024						0.0101	<0.01	<0.01
2/18/2025	<0.01	0.00765 (J)	0.00451 (J)	0.00705 (J)	0.0123			
2/26/2025						0.00685 (J)	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	0.0019 (J)	0.0073 (J)		0.0014 (J)				
11/17/2016	0.0024 (J)							
11/18/2016		0.008 (J)						
11/21/2016				0.003 (J)				
2/22/2017	0.004 (J)							
2/23/2017		0.0086 (J)	0.001 (J)	0.0028 (J)				
4/17/2017			0.0018 (J)					
5/15/2017			0.0014 (J)					
6/15/2017	0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)				
9/28/2017	0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)				
2/15/2018	<0.01	0.0086 (J)	<0.01	0.0044 (J)				
6/27/2018	0.0062 (J)							
6/28/2018		0.0076 (J)	<0.01	0.0041 (J)				
12/19/2018	0.0073 (J)	0.0085 (J)	<0.01					
12/20/2018				0.0041 (J)				
1/15/2019					0.025			
8/28/2019	0.0071 (J)	0.0078 (J)	0.0017 (J)					
8/29/2019				0.0044 (J)				
10/16/2019	0.0064 (J)		0.0014 (J)	0.0038 (J)				
10/22/2019					0.02			
12/3/2019		0.007 (J)						
3/5/2020	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)				
8/19/2020	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)				
9/16/2020	0.0058 (J)	0.0064 (J)	0.0018 (J)					
9/17/2020				0.0042 (J)				
3/3/2021		0.0067	0.0014 (J)					
3/4/2021	0.0053			0.004 (J)				
9/22/2021		0.0065						
9/23/2021	0.0065		0.0016 (J)	0.004 (J)				
2/1/2022	0.0056	0.0068		0.0035 (J)				
2/2/2022			0.0015 (J)					
8/23/2022			<0.01	0.00398 (J)	0.0128		<0.01	
8/24/2022	0.00752 (J)	0.00713 (J)						
9/1/2022								<0.01
1/24/2023	0.00524 (J)							
1/25/2023		0.00682 (J)	<0.01	0.00362 (J)		<0.01	<0.01	
1/26/2023					0.0153			<0.01
8/22/2023			<0.01		0.0111			
8/23/2023	0.00592 (J)	0.00649 (J)		0.00338 (J)		<0.01		<0.01
8/24/2023							<0.01	
1/30/2024	0.0059 (J)				0.0134			
1/31/2024		0.00648 (J)	<0.01	0.00305 (J)		<0.01	<0.01	<0.01
8/27/2024			<0.01	0.00328 (J)	0.0137		<0.01	
8/28/2024	0.00491 (J)	0.00617 (J)				<0.01		<0.01
2/26/2025	0.00553 (J)	0.00674 (J)	<0.01	<0.01	0.0132	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0016 (J)	0.0034 (J)	0.0013 (J)	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	0.0612	
9/8/2016								0.0029 (J)
11/15/2016				<0.001	<0.001			
11/16/2016	0.0006 (J)	0.003 (J)	0.0012 (J)					
11/17/2016						<0.001	0.0551	0.0028 (J)
2/20/2017			0.0012 (J)	0.0009 (J)	<0.001			
2/21/2017	<0.005	0.0028 (J)						
2/22/2017						<0.001	0.0567	0.0041 (J)
6/12/2017	<0.005		0.0011 (J)	0.0006 (J)	0.0003 (J)			
6/13/2017		0.0025 (J)						
6/14/2017							0.0557	0.0036 (J)
6/15/2017						<0.001		
9/26/2017	<0.005	0.002 (J)	0.0016 (J)	0.0005 (J)	0.0003 (J)			
9/27/2017							0.049	0.0028 (J)
9/28/2017						<0.001		
2/13/2018	<0.005	<0.005	<0.01 (O)	<0.001	<0.001			
2/15/2018						<0.001	0.0536	<0.01
6/26/2018	<0.005	0.0019 (J)	0.0009 (J)	0.00052 (J)	<0.001			
6/27/2018						<0.001	0.054	0.0041 (J)
12/18/2018	<0.005	0.0032 (J)	0.00062 (J)	<0.001	<0.001		0.049	0.0032 (J)
12/19/2018						<0.001		
8/27/2019	<0.005	0.0012 (J)	0.00068 (J)	0.00042 (J)	<0.001		0.045	
8/28/2019						<0.001		0.0037 (J)
10/15/2019	<0.005	0.00097 (J)	0.00083 (J)	<0.001	<0.001			
10/16/2019							0.042	0.0043 (J)
10/17/2019						<0.001		
12/3/2019						<0.001		
3/3/2020	<0.005	0.0015 (J)	0.00043 (J)	<0.001	0.0011 (J)	<0.001		
3/5/2020							0.037	0.0031 (J)
8/18/2020	<0.005	0.0014 (J)	0.00048 (J)	<0.001	0.00061 (J)			
8/19/2020						<0.001	0.036	0.0041 (J)
9/15/2020	<0.005	0.001 (J)	0.0005 (J)	<0.001	<0.001			
9/16/2020						<0.001	0.034	0.0042 (J)
3/1/2021	<0.005				<0.001			
3/2/2021		0.001 (J)	0.00053 (J)	<0.001				
3/3/2021							0.028	0.0046 (J)
3/4/2021						<0.001		
9/21/2021			0.00071 (J)	<0.001				
9/22/2021	0.0015 (J)	<0.005			0.00078 (J)	<0.001	0.024	0.0075
2/1/2022	0.00079 (J)	0.0011 (J)	0.0007 (J)	<0.001	<0.001	<0.001	0.027	0.0044 (J)
8/23/2022	0.000767 (J)	0.000844 (J)	0.000553 (J)	<0.001	<0.001		0.0639	
8/24/2022						<0.001		0.00438
1/24/2023	0.00154	0.000829 (J)	0.000677 (J)	<0.001	<0.001	<0.001	0.0582	0.00351
8/22/2023	0.000707 (J)	0.000707 (J)	0.000474 (J)	0.000327 (J)	<0.001		0.0659	0.00384
8/23/2023						<0.001		
1/30/2024	0.0014	0.000962 (J)	0.000555 (J)	<0.001	<0.001	<0.001		
1/31/2024							0.0988	0.00751
8/27/2024	0.00105	0.000772 (J)	0.000396 (J)	<0.001	<0.001			
8/28/2024						<0.001	0.104	0.00494
2/18/2025	0.000715 (J)	0.00111	<0.001	<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
2/26/2025						<0.001	0.106	0.00592

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	0.0023 (J)	<0.001		0.236				
11/17/2016	0.0012 (J)							
11/18/2016		<0.001						
11/21/2016				0.298				
2/22/2017	0.0008 (J)							
2/23/2017		<0.001	<0.001	0.277				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	0.0004 (J)	<0.001	<0.001	0.262				
9/28/2017	0.0003 (J)	<0.001	<0.001	0.279				
2/15/2018	<0.001	<0.001	<0.001	0.279				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	0.23				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				0.25				
1/15/2019					<0.001			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				0.21				
10/16/2019	<0.001		<0.001	0.21				
10/17/2019		<0.001						
10/22/2019					0.00037 (J)			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	0.22				
6/4/2020							0.0012 (J)	
6/19/2020						0.00034 (J)		
8/19/2020	<0.001	<0.001	<0.001	0.22				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				0.2				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			0.2				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	0.17				
2/1/2022	<0.001	<0.001		0.18				
2/2/2022			<0.001					
8/23/2022			<0.001	0.173	<0.001		<0.001	
8/24/2022	<0.001	<0.001						
9/1/2022						0.0015		0.0056
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	0.158		0.00249	<0.001	
1/26/2023					<0.001			0.000682 (J)
8/22/2023			<0.001		<0.001			
8/23/2023	<0.001	<0.001		0.139		0.000307 (J)		0.000784 (J)
8/24/2023							<0.001	
1/30/2024	<0.001				<0.001			
1/31/2024		<0.001	<0.001	0.134		0.00104	<0.001	0.000866 (J)
8/27/2024			<0.001	0.119	<0.001		<0.001	
8/28/2024	<0.001	<0.001				0.000337 (J)		0.000686 (J)
2/26/2025	<0.001	<0.001	<0.001	0.109	<0.001	0.000373 (J)	<0.001	0.000507 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	1	0.62	0.566	0.428				
9/1/2016					0.603			
9/7/2016						0.541	0.706 (U)	
9/8/2016								2.03
11/15/2016				0.645	0.412			
11/16/2016	0.824 (U)	0.43 (U)	0.493 (U)					
11/17/2016						0.145 (U)	1.02 (U)	0.613
2/20/2017			0.534 (U)	1.36	0.633 (U)			
2/21/2017	1.01	0.96						
2/22/2017						0.0213 (U)	0.482 (U)	1.01 (U)
6/12/2017	0.532 (U)		0.254 (U)	0.566 (U)	0.112 (U)			
6/13/2017		0.645 (U)						
6/14/2017							0.723 (U)	0.801 (U)
6/15/2017						0.41 (U)		
9/26/2017	0.845 (U)	0.299 (U)	0.62 (U)	0.762 (U)	0.167 (U)			
9/27/2017							1.5	1.44
9/28/2017						0.496 (U)		
2/13/2018	0.176 (U)	1.01 (U)	0.0914 (U)	0.349 (U)	0.347 (U)			
2/15/2018						0.672 (U)	1.14 (U)	0.668 (U)
6/26/2018	1.02 (U)	1.26	1.11 (U)	0.614 (U)	0.903 (U)			
6/27/2018						0.692 (U)	1.3 (U)	1.06 (U)
12/18/2018	0.487 (U)	0.44 (U)	0.42 (U)	0.445 (U)	0.353 (U)		1.64	1.22
12/19/2018						0.325 (U)		
8/27/2019	1.11	1.47	1.19	1.44	0.65 (U)		1.38	
8/28/2019						0.24 (U)		0.811 (U)
10/15/2019	1.02 (U)	0.807 (U)	0.714 (U)	0.467 (U)	0.402 (U)			
10/16/2019							1.16 (U)	0.561 (U)
12/18/2019						1.16 (U)		
3/3/2020	1.18 (U)	0.818 (U)	0.996 (U)	1.5	0.397 (U)	0.756 (U)		
3/5/2020							0.683 (U)	0.792 (U)
8/18/2020	0.0861 (U)	1.22 (U)	0.53 (U)	0.581 (U)	0.453 (U)			
8/19/2020						0.985 (U)	1.14 (U)	1.21 (U)
9/15/2020	0.0583 (U)	0.579 (U)	0.215 (U)	0.55 (U)	0.474 (U)			
9/16/2020						0.478 (U)	0.195 (U)	0.72 (U)
3/1/2021	0.127 (U)				0.215 (U)			
3/2/2021		0.342 (U)	0.409 (U)	0.362 (U)				
3/3/2021							0.708 (U)	1.12
3/4/2021						0.38 (U)		
9/21/2021			0.182 (U)	0.86 (U)				
9/22/2021	0.349 (U)	1.33 (U)			0.943 (U)	0.734 (U)	0.382 (U)	0.91 (U)
2/1/2022	0.233 (U)	0.251 (U)	1.23	0.23 (U)	0.349 (U)	0.503 (U)	0.583 (U)	0.535 (U)
8/23/2022	1.7 (U)	0.531 (U)	2.3	0.735 (U)	0.203 (U)		1.94	
8/24/2022						0.152 (U)		1.86
1/24/2023	2.05 (U)	1.35 (U)	0.811 (U)	0.402 (U)	1.55 (U)	0.728 (U)	3.31 (U)	2.14 (U)
8/22/2023	0.857 (U)	0.592 (U)	1.36	1.31 (U)	1.89 (U)		0.521 (U)	1.06 (U)
8/23/2023						1.92 (U)		
1/30/2024	1.25	2.54	1.48 (U)	0 (U)	1.29	1.36		
1/31/2024							2.66	1.31 (U)
8/27/2024	0.864 (U)	1.4 (U)	3.62	0.236 (U)	1.64			
8/28/2024						1.78 (U)	2.68	3.15
2/18/2025	1.02 (U)	0.747 (U)	0.475 (U)	1.3 (U)	2.33			
2/26/2025						5.67	4.05	4.95

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	1.13	0.998 (U)		3.35				
11/17/2016	0.729 (U)							
11/18/2016		1.22 (U)						
11/21/2016				2.94				
2/22/2017	0.293 (U)							
2/23/2017		0.554 (U)	0.567 (U)	1.92				
4/17/2017			0.335 (U)					
5/15/2017			0.261 (U)					
6/15/2017	1.09	0.77 (U)	0.188 (U)	3.6				
9/28/2017	1.02 (U)	1.07 (U)	0.627 (U)	3.3				
2/15/2018	0.742 (U)	0.751 (U)	0.869 (U)	2.31				
6/27/2018	0.739 (U)							
6/28/2018		0.392 (U)	0.336 (U)	1.75				
12/19/2018	0.465 (U)	0.693 (U)	0.454 (U)					
12/20/2018				2.8				
1/15/2019					0.602			
8/28/2019	0.995 (U)	0.866 (U)	0.809 (U)					
8/29/2019				3.68				
10/16/2019	1.69		0.815 (U)	2.66				
10/22/2019					0.631 (U)			
12/18/2019		1.91						
3/5/2020	0.858 (U)	1.3	0.791 (U)	2.21				
8/19/2020	0.162 (U)	1.4	0.582 (U)	3.17				
9/16/2020	1.25 (U)	1.17 (U)	0.844 (U)					
9/17/2020				2.92				
3/3/2021		0.307 (U)	1.12					
3/4/2021	0.461 (U)			1.99				
9/22/2021		0.808 (U)						
9/23/2021	0.394 (U)		0.078 (U)	1.4				
2/1/2022	0.672 (U)	1.61 (U)		7.64				
2/2/2022			0.654 (U)					
8/23/2022			2.37 (U)	3.12	1.83 (U)		3.04	
8/24/2022	3.1	1.38 (U)						
9/1/2022								1.57 (U)
1/24/2023	3.34							
1/25/2023		4.86	1.67 (U)	3.79			2.1 (U)	
1/26/2023					4.77			1.81 (U)
2/2/2023						5.39		
8/22/2023			0.578 (U)		0.823 (U)			
8/23/2023	3.33	3.87		5.98		1.14 (U)		4.35
8/24/2023							3.67	
1/30/2024	2.4				2.01			
1/31/2024		2.31	1.74	2.98		2.54	3.57	1.55
8/27/2024			2.01 (U)	0.945 (U)	4.31		3.22	
8/28/2024	1.36 (U)	2.45				5.34		1.25 (U)
2/26/2025	3.29	4.5	5.37	3.64	3.29	3.82	4.25	2.41

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)				
9/1/2016					0.06 (J)			
9/7/2016						0.22 (J)	0.19 (J)	
9/8/2016								0.17 (J)
11/15/2016				0.08 (J)	0.04 (J)			
11/16/2016	0.05 (J)	0.04 (J)	0.03 (J)					
11/17/2016						0.33	0.26 (J)	0.12 (J)
2/20/2017			0.06 (J)	0.08 (J)	0.04 (J)			
2/21/2017	0.14 (J)	0.05 (J)						
2/22/2017						0.11 (J)	0.21 (J)	0.17 (J)
6/12/2017	0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)			
6/13/2017		0.04 (J)						
6/14/2017							0.18 (J)	0.1 (J)
6/15/2017						0.05 (J)		
9/26/2017	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1			
9/27/2017							0.42	0.4
9/28/2017						0.05 (J)		
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1			
2/15/2018						<0.3	0.42	<0.3
6/26/2018	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)			
6/27/2018						0.093 (J)	0.32	0.21 (J)
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1		0.28 (J)	0.12 (J)
12/19/2018						0.16 (J)		
3/19/2019	0.066 (J)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)	0.1 (J)		
3/20/2019							0.14 (J)	0.074 (J)
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1		0.11 (J)	
8/28/2019						0.085 (J)		0.057 (J)
10/15/2019	<0.1	<0.1	<0.1	0.045 (J)	<0.1			
10/16/2019							0.17 (J)	0.13 (J)
12/3/2019						0.2 (J)		
3/3/2020	0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)	0.093 (J)		
3/5/2020							0.088 (J)	0.072 (J)
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1			
8/19/2020						0.1	0.11	0.074 (J)
9/15/2020	<0.1	<0.1	<0.1	0.051 (J)	<0.1			
9/16/2020						0.1	0.085 (J)	0.077 (J)
3/1/2021	<0.1				<0.1			
3/2/2021		<0.1	<0.1	<0.1				
3/3/2021							0.069 (J)	0.071 (J)
3/4/2021						0.096 (J)		
9/21/2021			<0.1	0.056 (J)				
9/22/2021	<0.1	<0.1			<0.1	0.1	0.068 (J)	0.1
2/1/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.079 (J)	0.053 (J)	0.06 (J)
8/23/2022	<0.1	<0.1	<0.1	<0.1	<0.1		0.187	
8/24/2022						0.274		0.14
1/24/2023	<0.1	<0.1	0.149	0.158	0.12	0.216	0.193	0.122
8/22/2023	0.267	0.229	0.289	0.277	0.0787 (J)		0.123	0.0816 (J)
8/23/2023						0.484		
1/30/2024	<0.1	0.184	0.232	0.233	0.0341 (J)	0.34		
1/31/2024							0.194	0.101
8/27/2024	0.0342 (J)	0.0426 (J)	0.0365 (J)	0.0516 (J)	0.0334 (J)			
8/28/2024						0.218	0.204	0.11

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
2/18/2025	0.0566 (J)	0.0709 (J)	0.0553 (J)	0.0749 (J)	0.0527 (J)			
2/26/2025						0.0663 (J)	0.143	0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	0.34	0.18 (J)		0.66				
11/17/2016	0.24 (J)							
11/18/2016		0.04 (J)						
11/21/2016				0.95				
2/22/2017	0.09 (J)							
2/23/2017		0.07 (J)	0.1 (J)	0.75				
4/17/2017			0.08 (J)					
5/15/2017			0.02 (J)					
6/15/2017	0.03 (J)	0.01 (J)	0.03 (J)	0.77				
9/28/2017	<0.1	<0.1	<0.1	0.8				
2/15/2018	<0.1	<0.1	<0.1	0.82				
6/27/2018	0.22 (J)							
6/28/2018		0.51	<0.1	1.5				
12/19/2018	0.11 (J)	<0.1	0.094 (J)					
12/20/2018				0.68				
1/15/2019					0.06 (J)			
3/19/2019		<0.1						
3/20/2019	0.088 (J)		0.062 (J)	0.95				
8/28/2019	0.056 (J)	<0.1	<0.1					
8/29/2019				0.9				
10/16/2019	0.08 (J)		0.059 (J)	0.61				
10/22/2019					<0.1			
12/3/2019		0.15 (J)						
3/5/2020	0.067 (J)	<0.1	0.05 (J)	0.92				
6/4/2020							0.19	
6/19/2020						0.59		
8/19/2020	0.06 (J)	0.051 (J)	0.055 (J)	0.95				
9/16/2020	0.062 (J)	<0.1	<0.1					
9/17/2020				0.68				
3/3/2021		<0.1	<0.1					
3/4/2021	0.076 (J)			0.83				
9/22/2021		0.054 (J)						
9/23/2021	0.073 (J)		<0.1	0.85				
2/1/2022	0.055 (J)	<0.1		0.95				
2/2/2022			<0.1					
8/23/2022			0.105	0.609	0.128		0.164	
8/24/2022	<0.1	0.194						
9/1/2022						0.14		1.43
1/24/2023	0.239							
1/25/2023		0.183	0.114	0.708			0.282	
1/26/2023					<0.1	1.93		<0.1
8/22/2023			0.0445 (J)		<0.1			
8/23/2023	0.347	0.301		0.748		1.94		0.229
8/24/2023							0.334	
1/30/2024	0.263				0.222			
1/31/2024		0.144	0.109	0.493		1.9	0.153	0.108
8/27/2024			0.0777 (J)	0.366	0.0701 (J)		0.103	
8/28/2024	0.0609 (J)	0.0861 (J)				2.04		<0.1
2/26/2025	0.0472 (J)	0.0348 (J)	0.0523 (J)	0.336	0.0404 (J)	2.03	0.0608 (J)	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					0.0001 (J)			
9/7/2016						<0.002	0.0002 (J)	
9/8/2016								<0.002
11/15/2016				<0.002	<0.002			
11/16/2016	<0.002	<0.002	<0.002					
11/17/2016						0.0001 (J)	0.0002 (J)	0.0001 (J)
2/20/2017			<0.002	0.0002 (J)	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017						<0.002	0.0001 (J)	0.0003 (J)
6/12/2017	8E-05 (J)		<0.002	0.0001 (J)	8E-05 (J)			
6/13/2017		<0.002						
6/14/2017							9E-05 (J)	<0.002
6/15/2017						<0.002		
9/26/2017	7E-05 (J)	7E-05 (J)	<0.002	0.0001 (J)	<0.002			
9/27/2017							7E-05 (J)	9E-05 (J)
9/28/2017						<0.002		
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2018						<0.002	<0.002	<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
6/27/2018						<0.002	<0.002	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
12/19/2018						<0.002		
8/27/2019	<0.002	5.8E-05 (J)	<0.002	0.00036 (J)	<0.002		0.00013 (J)	
8/28/2019						<0.002		<0.002
10/15/2019	<0.002	<0.002	<0.002	7.9E-05 (J)	<0.002			
10/16/2019							8.8E-05 (J)	<0.002
12/3/2019						<0.002		
3/3/2020	<0.002	<0.002	<0.002	7.9E-05 (J)	7.3E-05 (J)	<0.002		
3/5/2020							8.7E-05 (J)	<0.002
8/18/2020	<0.002	<0.002	<0.002	0.0001 (J)	<0.002			
8/19/2020						<0.002	6E-05 (J)	<0.002
9/15/2020	<0.002	<0.002	0.0013 (J)	4.3E-05 (J)	<0.002			
9/16/2020						5.4E-05 (J)	6.3E-05 (J)	<0.002
3/1/2021	<0.002				<0.002			
3/2/2021		<0.002	3.7E-05 (J)	<0.002				
3/3/2021							5.8E-05 (J)	<0.002
3/4/2021						<0.002		
9/21/2021			<0.002	<0.002				
9/22/2021	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
8/24/2022						<0.002		<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/22/2023	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
8/23/2023						<0.002		
1/30/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
1/31/2024							<0.002	<0.002
8/27/2024	<0.002	<0.002	<0.002	<0.002	<0.002			
8/28/2024						<0.002	<0.002	<0.002
2/18/2025	<0.002	<0.002	<0.002	<0.002	<0.002			
2/26/2025						<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	0.0001 (J)	<0.002		0.0004 (J)				
11/17/2016	0.0002 (J)							
11/18/2016		<0.002						
11/21/2016				0.0005 (J)				
2/22/2017	0.0001 (J)							
2/23/2017		<0.002	<0.002	0.0005 (J)				
4/17/2017			0.0001 (J)					
5/15/2017			<0.002					
6/15/2017	<0.002	<0.002	<0.002	0.0004 (J)				
9/28/2017	<0.002	<0.002	0.0001 (J)	0.0004 (J)				
2/15/2018	<0.002	<0.002	<0.002	0.00047 (J)				
6/27/2018	<0.002							
6/28/2018		<0.002	<0.002	0.00036 (J)				
12/19/2018	<0.002	<0.002	<0.002					
12/20/2018				0.00039 (J)				
1/15/2019					<0.002			
8/28/2019	<0.002	<0.002	<0.002					
8/29/2019				0.00035 (J)				
10/16/2019	<0.002		<0.002	0.00035 (J)				
10/22/2019					0.00035 (J)			
12/3/2019		<0.002						
3/5/2020	<0.002	<0.002	<0.002	0.00041 (J)				
8/19/2020	<0.002	4.7E-05 (J)	<0.002	0.00031 (J)				
9/16/2020	0.00012 (J)	<0.002	<0.002					
9/17/2020				0.00032 (J)				
3/3/2021		<0.002	<0.002					
3/4/2021	<0.002			0.00034 (J)				
9/22/2021		<0.002						
9/23/2021	<0.002		<0.002	<0.002				
2/1/2022	<0.002	<0.002		<0.002				
2/2/2022			<0.002					
8/23/2022			<0.002	<0.002	<0.002		<0.002	
8/24/2022	<0.002	<0.002						
9/1/2022								<0.002
1/24/2023	<0.002							
1/25/2023		<0.002	<0.002	<0.002		<0.002	<0.002	
1/26/2023					<0.002			<0.002
8/22/2023			<0.002		<0.002			
8/23/2023	<0.002	<0.002		<0.002		<0.002		<0.002
8/24/2023							<0.002	
1/30/2024	<0.002				<0.002			
1/31/2024		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
8/27/2024			<0.002	<0.002	<0.002		<0.002	
8/28/2024	<0.002	<0.002				<0.002		<0.002
2/26/2025	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0268 (J)	<0.01	<0.01	<0.01				
9/1/2016					0.003 (J)			
9/7/2016						<0.01	0.0092 (J)	
9/8/2016								<0.01
11/15/2016				<0.01	0.0033 (J)			
11/16/2016	0.0201 (J)	<0.01	0.0033 (J)					
11/17/2016						<0.01	0.0097 (J)	<0.01
2/20/2017			<0.01	<0.01	0.0025 (J)			
2/21/2017	0.0128 (J)	<0.01						
2/22/2017						<0.01	0.0106 (J)	<0.01
6/12/2017	0.0245 (J)		0.0019 (J)	<0.01	0.0027 (J)			
6/13/2017		<0.01						
6/14/2017							0.0097 (J)	<0.01
6/15/2017						<0.01		
9/26/2017	0.0549	<0.01	0.0022 (J)	<0.01	0.0023 (J)			
9/27/2017							0.0099 (J)	<0.01
9/28/2017						<0.01		
2/13/2018	0.0595	<0.01	0.0041 (J)	<0.01	0.0027 (J)			
2/15/2018						<0.01	0.0106 (J)	<0.01
6/26/2018	0.089	<0.01	0.0025 (J)	<0.01	0.0029 (J)			
6/27/2018						<0.01	0.01 (J)	<0.01
12/18/2018	0.024 (J)	<0.01	0.0032 (J)	<0.01	0.0026 (J)		0.011 (J)	<0.01
12/19/2018						<0.01		
8/27/2019	0.035 (J)	<0.01	0.0019 (J)	<0.01	0.0028 (J)		0.01 (J)	
8/28/2019						0.00097 (J)		0.0009 (J)
10/15/2019	0.028 (J)	<0.01	0.002 (J)	<0.01	0.0024 (J)			
10/16/2019							0.0098 (J)	0.00078 (J)
12/3/2019						0.001 (J)		
3/3/2020	0.055	<0.01	0.0013 (J)	<0.01	0.0026 (J)	<0.01		
3/5/2020							0.011 (J)	0.00089 (J)
8/18/2020	0.054	<0.01	0.00095 (J)	<0.01	0.0026 (J)			
8/19/2020						0.001 (J)	0.009 (J)	0.00082 (J)
9/15/2020	0.033	<0.01	0.001 (J)	<0.01	0.0027 (J)			
9/16/2020						0.00096 (J)	0.0089 (J)	<0.01
3/1/2021	0.027 (J)				0.0036 (J)			
3/2/2021		<0.01	0.00081 (J)	<0.01				
3/3/2021							0.0085 (J)	0.00096 (J)
3/4/2021						0.00086 (J)		
9/21/2021			0.0012 (J)	<0.01				
9/22/2021	0.021 (J)	<0.01			0.0035 (J)	0.0011 (J)	0.008 (J)	<0.01
2/1/2022	0.023 (J)	<0.01	0.0011 (J)	<0.01	0.0029 (J)	0.00096 (J)	0.0083 (J)	0.00085 (J)
8/23/2022	0.0262	<0.01	<0.01	<0.01	0.00314 (J)		0.0109	
8/24/2022						<0.01		<0.01
1/24/2023	0.00919 (J)	<0.01	<0.01	<0.01	0.00341 (J)	<0.01	0.0115	<0.01
8/22/2023	0.0209	<0.01	<0.01	<0.01	<0.01		0.00967 (J)	<0.01
8/23/2023						<0.01		
1/30/2024	0.00407 (J)	<0.01	<0.01	<0.01	0.00317 (J)	<0.01		
1/31/2024							0.0117	<0.01
8/27/2024	0.00584 (J)	<0.01	0.00337 (J)	<0.01	0.00322 (J)			
8/28/2024						<0.01	0.0102	<0.01
2/18/2025	0.00603 (J)	<0.01	<0.01	<0.01	<0.01			
2/26/2025						<0.01	0.0102	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	0.0021 (J)	0.0024 (J)		0.0193 (J)				
11/17/2016	0.0022 (J)							
11/18/2016		0.0026 (J)						
11/21/2016				0.0223 (J)				
2/22/2017	0.0023 (J)							
2/23/2017		0.0026 (J)	<0.01	0.0229 (J)				
4/17/2017			<0.01					
5/15/2017			<0.01					
6/15/2017	0.0023 (J)	0.0026 (J)	<0.01	0.0227 (J)				
9/28/2017	0.0021 (J)	0.0025 (J)	<0.01	0.023 (J)				
2/15/2018	0.0021 (J)	<0.01	<0.01	0.0254 (J)				
6/27/2018	0.0021 (J)							
6/28/2018		0.0022 (J)	<0.01	0.021 (J)				
12/19/2018	0.0021 (J)	0.0026 (J)	<0.01					
12/20/2018				0.022 (J)				
1/15/2019					0.0017 (J)			
8/28/2019	0.0021 (J)	0.0025 (J)	<0.01					
8/29/2019				0.021 (J)				
10/16/2019	0.0022 (J)		<0.01	0.02 (J)				
10/22/2019					0.001 (J)			
12/3/2019		0.0024 (J)						
3/5/2020	0.0021 (J)	0.0025 (J)	<0.01	0.021 (J)				
8/19/2020	0.0021 (J)	0.0024 (J)	<0.01	0.021 (J)				
9/16/2020	0.002 (J)	0.0022 (J)	<0.01					
9/17/2020				0.02 (J)				
3/3/2021		0.0024 (J)	<0.01					
3/4/2021	0.0021 (J)			0.021 (J)				
9/22/2021		0.0026 (J)						
9/23/2021	0.0022 (J)		<0.01	0.019 (J)				
2/1/2022	0.0021 (J)	0.0023 (J)		0.02 (J)				
2/2/2022			<0.01					
8/23/2022			<0.01	0.0214	<0.01		0.0171	
8/24/2022	<0.01	<0.01						
9/1/2022								0.00615 (J)
1/24/2023	<0.01							
1/25/2023		<0.01	<0.01	0.0256		0.0165	0.0207	
1/26/2023					<0.01			0.00381 (J)
8/22/2023			<0.01		<0.01			
8/23/2023	<0.01	<0.01		0.0195		0.0182		0.00385 (J)
8/24/2023							0.0185	
1/30/2024	<0.01				<0.01			
1/31/2024		<0.01	<0.01	0.0201		0.0184	0.0182	0.00385 (J)
8/27/2024			<0.01	0.02	<0.01		0.019	
8/28/2024	<0.01	<0.01				0.0163		0.00382 (J)
2/26/2025	<0.01	<0.01	<0.01	0.0178	<0.01	0.0182	0.0182	0.00401 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002				
9/1/2016					<0.0002			
9/7/2016						<0.0002	<0.0002	
9/8/2016								<0.0002
11/15/2016				<0.0002	<0.0002			
11/16/2016	<0.0002	<0.0002	<0.0002					
11/17/2016						<0.0002	<0.0002	<0.0002
2/20/2017			<0.0002	8E-05 (J)	<0.0002			
2/21/2017	<0.0002	<0.0002						
2/22/2017						<0.0002	<0.0002	<0.0002
6/12/2017	4E-05 (J)		<0.0002	<0.0002	<0.0002			
6/13/2017		<0.0002						
6/14/2017							7E-05 (J)	7E-05 (J)
6/15/2017						6E-05 (J)		
9/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/27/2017							4E-05 (J)	4E-05 (J)
9/28/2017						<0.0002		
2/13/2018	0.00021	0.00019 (J)	<0.0002	0.00013 (J)	<0.0002			
2/15/2018						<0.0002	<0.0002	<0.0002
6/26/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
6/27/2018						<0.0002	<0.0002	<0.0002
12/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
12/19/2018						<0.0002		
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019						<0.0002		<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/19/2020						8.4E-05 (J)	<0.0002	0.00012 (J)
9/15/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/16/2020						<0.0002	<0.0002	<0.0002
3/1/2021	<0.0002				<0.0002			
3/2/2021		<0.0002	<0.0002	<0.0002				
3/3/2021							<0.0002	<0.0002
3/4/2021						<0.0002		
9/21/2021			0.0001 (J)	0.0001 (J)				
9/22/2021	0.0001 (J)	0.0001 (J)			0.0001 (J)	0.0001 (J)	0.00012 (J)	0.00015 (J)
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/23/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/24/2022						<0.0002		<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/22/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
8/23/2023						<0.0002		
1/30/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
1/31/2024							<0.0002	<0.0002
8/27/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/28/2024						<0.0002	<0.0002	<0.0002
2/18/2025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/26/2025						<0.0002	<0.0002	0.000131 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	<0.0002	<0.0002		7E-05 (J)				
11/17/2016	<0.0002							
11/18/2016		<0.0002						
11/21/2016				0.00012 (J)				
2/22/2017	<0.0002							
2/23/2017		<0.0002	<0.0002	7E-05 (J)				
4/17/2017			<0.0002					
5/15/2017			<0.0002					
6/15/2017	7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)				
9/28/2017	<0.0002	<0.0002	<0.0002	0.00011 (J)				
2/15/2018	<0.0002	<0.0002	<0.0002	0.00015 (J)				
6/27/2018	<0.0002							
6/28/2018		<0.0002	<0.0002	0.00017 (J)				
12/19/2018	<0.0002	<0.0002	<0.0002					
12/20/2018				0.00017 (J)				
1/15/2019					<0.0002			
8/28/2019	<0.0002	<0.0002	<0.0002					
8/29/2019				0.00018 (J)				
8/19/2020	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)				
9/16/2020	<0.0002	<0.0002	<0.0002					
9/17/2020				0.00011 (J)				
3/3/2021		<0.0002	<0.0002					
3/4/2021	<0.0002			8.5E-05 (J)				
9/22/2021		0.0001 (J)						
9/23/2021	0.00011 (J)		0.00011 (J)	0.00022				
2/1/2022	<0.0002	<0.0002		<0.0002				
2/2/2022			<0.0002					
8/23/2022			<0.0002	0.000117 (J)	<0.0002		<0.0002	
8/24/2022	<0.0002	<0.0002						
9/1/2022								<0.0002
1/24/2023	<0.0002							
1/25/2023		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/26/2023					<0.0002			<0.0002
8/22/2023			<0.0002		<0.0002			
8/23/2023	<0.0002	<0.0002		<0.0002		<0.0002		0.00322
8/24/2023							<0.0002	
1/30/2024	<0.0002				<0.0002			
1/31/2024		<0.0002	<0.0002	8.5E-05 (J)		<0.0002	<0.0002	0.00149
8/27/2024			<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2024	<0.0002	<0.0002				<0.0002		0.00101
2/26/2025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00173

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	0.0021 (J)	<0.001	0.004 (J)	<0.001				
9/1/2016					<0.001			
9/7/2016						<0.001	<0.001	
9/8/2016								<0.001
11/15/2016				<0.001	<0.001			
11/16/2016	<0.01	<0.001	0.0038 (J)					
11/17/2016						<0.001	<0.001	<0.001
2/20/2017			0.0055 (J)	<0.001	<0.001			
2/21/2017	0.0021 (J)	<0.001						
2/22/2017						<0.001	<0.001	<0.001
6/12/2017	0.0021 (J)		0.005 (J)	<0.001	<0.001			
6/13/2017		<0.001						
6/14/2017							<0.001	<0.001
6/15/2017						<0.001		
9/26/2017	0.0011 (J)	<0.001	0.0053 (J)	<0.001	<0.001			
9/27/2017							<0.001	<0.001
9/28/2017						<0.001		
2/13/2018	0.0019 (J)	<0.001	0.008 (J)	<0.001	<0.001			
2/15/2018						<0.001	<0.001	<0.001
6/26/2018	<0.01	<0.001	0.0041 (J)	<0.001	<0.001			
6/27/2018						<0.001	<0.001	<0.001
12/18/2018	<0.01	<0.001	0.0048 (J)	<0.001	<0.001		<0.001	<0.001
12/19/2018						<0.001		
8/27/2019	<0.01	<0.001	0.0028 (J)	<0.001	<0.001		<0.001	
8/28/2019						<0.001		<0.001
10/15/2019	<0.01	<0.001	0.0035 (J)	<0.001	<0.001			
10/16/2019							<0.001	<0.001
12/3/2019						<0.001		
3/3/2020	<0.01	<0.001	0.0023 (J)	<0.001	<0.001	<0.001		
3/5/2020							<0.001	<0.001
8/18/2020	0.0011 (J)	<0.001	0.0015 (J)	<0.001	<0.001			
8/19/2020						<0.001	<0.001	<0.001
9/15/2020	0.0007 (J)	<0.001	0.0015 (J)	<0.001	<0.001			
9/16/2020						<0.001	<0.001	<0.001
3/1/2021	<0.01				<0.001			
3/2/2021		<0.001	0.0015 (J)	<0.001				
3/3/2021							<0.001	<0.001
3/4/2021						<0.001		
9/21/2021			0.002 (J)	<0.001				
9/22/2021	0.0012 (J)	<0.001			<0.001	<0.001	<0.001	<0.001
2/1/2022	0.0013 (J)	<0.001	0.002 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
8/23/2022	0.0024	<0.001	0.00151	<0.001	<0.001		<0.001	
8/24/2022						<0.001		<0.001
1/24/2023	0.000601 (J)	<0.001	0.00192	<0.001	<0.001	<0.001	<0.001	<0.001
8/22/2023	0.00169	<0.001	0.000953 (J)	<0.001	<0.001		<0.001	<0.001
8/23/2023						<0.001		
1/30/2024	0.000362 (J)	<0.001	0.00143	<0.001	<0.001	<0.001		
1/31/2024							<0.001	<0.001
8/27/2024	0.000313 (J)	<0.001	0.00134	<0.001	<0.001			
8/28/2024						<0.001	<0.001	<0.001
2/18/2025	0.000375 (J)	<0.001	0.00141	<0.001	<0.001			
2/26/2025						<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	<0.001	<0.001		<0.001				
11/17/2016	<0.001							
11/18/2016		<0.001						
11/21/2016				<0.001				
2/22/2017	<0.001							
2/23/2017		<0.001	<0.001	<0.001				
4/17/2017			<0.001					
5/15/2017			<0.001					
6/15/2017	<0.001	<0.001	<0.001	<0.001				
9/28/2017	<0.001	<0.001	<0.001	<0.001				
2/15/2018	<0.001	<0.001	<0.001	<0.001				
6/27/2018	<0.001							
6/28/2018		<0.001	<0.001	<0.001				
12/19/2018	<0.001	<0.001	<0.001					
12/20/2018				<0.001				
1/15/2019					<0.001			
8/28/2019	<0.001	<0.001	<0.001					
8/29/2019				<0.001				
10/16/2019	<0.001		<0.001	<0.001				
10/22/2019					<0.001			
12/3/2019		<0.001						
3/5/2020	<0.001	<0.001	<0.001	<0.001				
8/19/2020	<0.001	<0.001	<0.001	<0.001				
9/16/2020	<0.001	<0.001	<0.001					
9/17/2020				<0.001				
3/3/2021		<0.001	<0.001					
3/4/2021	<0.001			<0.001				
9/22/2021		<0.001						
9/23/2021	<0.001		<0.001	<0.001				
2/1/2022	<0.001	<0.001		<0.001				
2/2/2022			<0.001					
8/23/2022			<0.001	<0.001	<0.001		0.00265	
8/24/2022	<0.001	<0.001						
9/1/2022								0.00142
1/24/2023	<0.001							
1/25/2023		<0.001	<0.001	<0.001		0.0222	0.00234	
1/26/2023					<0.001			<0.001
8/22/2023			<0.001		<0.001			
8/23/2023	<0.001	<0.001		<0.001		0.0154		<0.001
8/24/2023							0.00211	
1/30/2024	<0.001				<0.001			
1/31/2024		<0.001	<0.001	<0.001		0.0137	0.00209	<0.001
8/27/2024			<0.001	<0.001	<0.001		0.00191	
8/28/2024	<0.001	<0.001				0.00922		<0.001
2/26/2025	<0.001	<0.001	<0.001	<0.001	<0.001	0.00804	0.00158	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.16	6.2	6.53	6.59				
9/1/2016					6.49			
9/7/2016						6.36	4.92	
9/8/2016								5.84
11/15/2016				6.67	6.59			
11/16/2016	6.96	6.12	6.4					
11/17/2016						6.28	4.82	5.81
2/20/2017			6.44	6.65	6.61			
2/21/2017	7.15	6.24						
2/22/2017						6.4	4.86	5.85
6/12/2017	7.31		6.4	6.64				
6/13/2017		6.19						
6/14/2017							4.86	5.87
6/15/2017						6.35		
9/26/2017	7.02	6.15	6.31	6.58	6.47			
9/27/2017							4.78	5.74
9/28/2017						6.35		
2/13/2018	7.44	6.18	6.62	6.72	6.54			
2/15/2018						6.35	4.84	5.93
6/26/2018	6.93	6.05	6.29	6.43	6.23			
6/27/2018						6.35	4.73	5.68
12/18/2018	6.76	5.92	6.57	6.7	6.71		4.84	5.97
12/19/2018						6.56		
3/19/2019	6.87	6.18	6.45	6.63	6.18	6.43		
3/20/2019							4.77	5.84
8/27/2019	6.79	6.09	6.37	6.49	6.35		4.78	
8/28/2019						6.25		5.8
10/15/2019	6.57	6.06	6.77	7.01	6.36			
10/16/2019							4.78	5.85
10/17/2019						6.3		
12/3/2019						6.36		
3/3/2020	6.71	6.1	6.29	6.49	6.59	6.34		
3/5/2020							4.82	5.89
8/18/2020	6.59	6.06	6.29	6.41	6.33			
8/19/2020						6.24	4.78	5.78
9/15/2020	6.64	6.01	6.27	6.25	6.43			
9/16/2020						6.26	4.78	5.81
3/1/2021	6.66				6.7			
3/2/2021		6.2	6.47	6.42				
3/3/2021							4.83	5.88
3/4/2021						6.45		
9/21/2021			6.32	6.36				
9/22/2021	6.78	6.06			6.48	6.22	4.81	5.93
2/1/2022	6.83	5.95	6.38	6.39	6.54	6.39	4.82	5.87
8/23/2022	6.67	5.95	6.24	6.36	6.51		4.67	
8/24/2022						6.62		5.75
10/12/2022		5.69					4.72	
1/24/2023	6.7	5.26	6.42	6.47	6.54	6.37	4.79	5.93
8/22/2023	6.95	5.96	6.24	6.08	6.09		4.58	5.72
8/23/2023						6.16		
10/30/2023	6.22	5.5			6.28			
1/30/2024	6.57	6.05	6.44	6.38	5.75	6.28		

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
1/31/2024							4.78	5.95
8/27/2024	6.6	6.02	6.56	6.65	6.8			
8/28/2024						6.49	4.51	6.21
2/18/2025	6.42	5.88	6.17	6.42	6.38			
2/26/2025						6.26	4.94	5.97

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	6.1	5.59		5.43				
9/23/2016				5.46				
9/26/2016					5.68			
11/17/2016	6.04							
11/18/2016		5.51						
11/21/2016				4.84				
2/22/2017	6.08							
2/23/2017		5.65	5.57	4.73				
4/17/2017			5.8					
5/15/2017			5.75					
6/15/2017	6.06	5.55	5.8	4.35				
9/28/2017	6.03	5.62	5.86	4.37				
2/15/2018	6.02	5.66	5.95	4.3				
6/27/2018	6.01							
6/28/2018		5.57	5.78	4.16				
12/19/2018	6.22	5.76	6.07					
12/20/2018				4.21				
1/15/2019					5.52			
3/19/2019		5.72						
3/20/2019	6.06		5.93	4.34				
8/28/2019	5.95	5.52	5.8					
8/29/2019				4.01				
10/16/2019	6.03		5.81	4.21				
10/17/2019		5.61						
10/22/2019					5.49			
12/3/2019		5.63						
3/5/2020	6.04	5.39	5.53	4.01				
6/4/2020							7.15	
6/19/2020						7.17		
8/19/2020	5.97	5.53	5.66	4.12				
9/16/2020	5.96	5.58	5.84					
9/17/2020				4.17				
3/3/2021		5.86	5.87					
3/4/2021	6.14			4.19				
9/22/2021		5.53						
9/23/2021	6.08		5.85	4.05				
2/1/2022	6.09	5.65		4.06				
2/2/2022			5.8					
8/23/2022			5.82	3.97	5.46		7.18	
8/24/2022	6.05	5.59						
9/1/2022						7.7		6.13
10/12/2022	5.64			4.17				
1/24/2023	6.08							
1/25/2023		5.64	5.84	4.75		7.14	7.1	
1/26/2023					5.56	7.14		5.6
8/22/2023			5.42		5.37			
8/23/2023	5.9	5.26		3.91		6.99		5.36
8/24/2023							6.54	
1/30/2024	5.5				5.66			
1/31/2024		5.63	5.76	4.1		7.69	6.7	5.5
8/27/2024			5.82	4.96	5.67		6.94	
8/28/2024	5.87	5.8				7.66		5.28

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
2/26/2025	5.94	5.64	5.73	4.23	5.55	7.58	6.99	5.35

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005			
9/7/2016						0.0024 (J)	0.0032 (J)	
9/8/2016								<0.005
11/15/2016				<0.005	<0.005			
11/16/2016	<0.005	<0.005	<0.005					
11/17/2016						0.0028 (J)	0.0028 (J)	<0.005
2/20/2017			<0.005	<0.005	<0.005			
2/21/2017	<0.005	<0.005						
2/22/2017						0.0018 (J)	0.0018 (J)	<0.005
6/12/2017	<0.005		<0.005	<0.005	<0.005			
6/13/2017		<0.005						
6/14/2017							0.004 (J)	<0.005
6/15/2017						0.0024 (J)		
9/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005			
9/27/2017							0.0036 (J)	<0.005
9/28/2017						<0.005		
2/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
2/15/2018						<0.005	<0.005	<0.005
6/26/2018	<0.005	<0.005	<0.005	<0.005	<0.005			
6/27/2018						0.002 (J)	0.0017 (J)	<0.005
12/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
12/19/2018						0.0014 (J)		
8/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
8/28/2019						0.003 (J)		<0.005
10/15/2019	<0.005	<0.005	<0.005	<0.005	<0.005			
10/16/2019							0.0028 (J)	<0.005
12/3/2019						0.0041 (J)		
3/3/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 (J)		
3/5/2020							<0.005	<0.005
8/18/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
8/19/2020						0.003 (J)	<0.005	<0.005
9/15/2020	<0.005	<0.005	<0.005	<0.005	<0.005			
9/16/2020						<0.005	0.0028 (J)	<0.005
3/1/2021	<0.005				<0.005			
3/2/2021		<0.005	<0.005	<0.005				
3/3/2021							<0.005	<0.005
3/4/2021						<0.005		
9/21/2021			<0.005	<0.005				
9/22/2021	<0.005	<0.005			<0.005	0.0015 (J)	<0.005	<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)	<0.005	<0.005
8/23/2022	<0.005	<0.005	<0.005	<0.005	<0.005		0.0061	
8/24/2022						0.00208 (J)		<0.005
1/24/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.00178 (J)	0.0049 (J)	<0.005
8/22/2023	<0.005	<0.005	<0.005	<0.005	<0.005		0.00572	<0.005
8/23/2023						0.00214 (J)		
1/30/2024	<0.005	<0.005	<0.005	<0.005	<0.005	0.00271 (J)		
1/31/2024							0.0164	<0.005
8/27/2024	<0.005	<0.005	<0.005	<0.005	<0.005			
8/28/2024						0.00304 (J)	0.0238	<0.005
2/18/2025	<0.005	<0.005	<0.005	<0.005	<0.005			
2/26/2025						0.00261 (J)	0.0286	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	<0.005	0.0079 (J)		0.0311				
11/17/2016	<0.005							
11/18/2016		0.0082 (J)						
11/21/2016				0.0409				
2/22/2017	<0.005							
2/23/2017		0.0061 (J)	<0.005	0.0354				
4/17/2017			<0.005					
5/15/2017			<0.005					
6/15/2017	<0.005	0.0046 (J)	<0.005	0.0511				
9/28/2017	<0.005	0.0042 (J)	<0.005	0.0484				
2/15/2018	<0.005	0.0045 (J)	<0.005	0.0435				
6/27/2018	<0.005							
6/28/2018		0.0033 (J)	<0.005	0.037				
12/19/2018	<0.005	0.0042 (J)	<0.005					
12/20/2018				0.037				
1/15/2019					0.0033 (J)			
8/28/2019	<0.005	0.0041 (J)	<0.005					
8/29/2019				0.036				
10/16/2019	<0.005		<0.005	0.033				
10/22/2019					0.0033 (J)			
12/3/2019		0.0035 (J)						
3/5/2020	<0.005	0.0034 (J)	<0.005	0.032				
8/19/2020	<0.005	0.002 (J)	<0.005	0.041				
9/16/2020	<0.005	0.0031 (J)	<0.005					
9/17/2020				0.029				
3/3/2021		0.0024 (J)	<0.005					
3/4/2021	<0.005			0.039				
9/22/2021		0.0032 (J)						
9/23/2021	<0.005		<0.005	0.031				
2/1/2022	<0.005	0.0025 (J)		0.029				
2/2/2022			<0.005					
8/23/2022			<0.005	0.0296	0.00157 (J)		<0.005	
8/24/2022	<0.005	0.00246 (J)						
9/1/2022								0.00625
1/24/2023	<0.005							
1/25/2023		0.00237 (J)	<0.005	0.0279		<0.005	<0.005	
1/26/2023					0.00215 (J)			0.00921
8/22/2023			<0.005		<0.005			
8/23/2023	<0.005	0.00173 (J)		0.0186		<0.005		0.00829
8/24/2023							<0.005	
1/30/2024	<0.005				0.00203 (J)			
1/31/2024		0.00174 (J)	<0.005	0.0187		<0.005	<0.005	0.00789
8/27/2024			<0.005	0.018	0.00217 (J)		<0.005	
8/28/2024	<0.005	0.00159 (J)				<0.005		0.00691
2/26/2025	<0.005	0.00173 (J)	<0.005	0.0147	0.00308 (J)	<0.005	<0.005	0.00633

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	7.5	0.38 (J)	2.7	0.81 (J)				
9/1/2016					0.6 (J)			
9/7/2016						97	260	
9/8/2016								420
11/15/2016				0.87 (J)	0.49 (J)			
11/16/2016	6.6	0.36 (J)	3.4					
11/17/2016						120	250	460
2/20/2017			3.9	1	0.98 (J)			
2/21/2017	6.1	1.5						
2/22/2017						120	210	410
6/12/2017	5		3.7	0.94 (J)	0.54 (J)			
6/13/2017		0.67 (J)						
6/14/2017							200	410
6/15/2017						130		
9/26/2017	5.4	0.62 (J)	4.1	0.92 (J)	0.53 (J)			
9/27/2017							200	360
9/28/2017						120		
2/13/2018	4.7 (J)	<1	6.6	<1	<1			
2/15/2018						109	197	335
6/26/2018	6.2	0.69 (J)	3.5	0.91 (J)	0.54 (J)			
6/27/2018						118	200	296
12/18/2018	5.9	0.72 (J)	4.3	0.68 (J)	0.39 (J)		222	345
12/19/2018						125		
3/19/2019	6	0.78 (J)	3	0.74 (J)	0.68 (J)	126		
3/20/2019							204	329
10/15/2019	5.2	0.47 (J)	3.8	0.68 (J)	0.48 (J)			
10/16/2019							226	325
12/3/2019						180		
3/3/2020	7.1	0.93 (J)	2.8	0.71 (J)	2.5	95.4		
3/5/2020							173	287
9/15/2020	5.9	<1	1.7	<1	<1			
9/16/2020						151	154	283
3/1/2021	4.7				0.74 (J)			
3/2/2021		<1	2.2	<1				
3/3/2021							133	277
3/4/2021						122		
9/21/2021			2.3	<1				
9/22/2021	5.2	<1			<1	123	94.6	232
2/1/2022	5.4	<1	2	<1	<1	139	99.7	243
8/23/2022	5.66	0.452	2.21	0.521	0.479		385	
8/24/2022						157		268
1/24/2023	3.58	0.465	3.34	0.66	0.484	153	375	267
8/22/2023	6.85	0.526	1.83	0.54	0.467		466	299
8/23/2023						180		
1/30/2024	2.65	0.423	2.74	0.617	0.456	189		
1/31/2024							872	289
8/27/2024	2.58	0.444	2.67	0.652	0.465			
8/28/2024						188	1230	308
2/18/2025	3.07	0.341 (J)	3.16	0.543	0.468			
2/26/2025						206	1580	400

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	260	300		440				
11/17/2016	280							
11/18/2016		170						
11/21/2016				510				
2/22/2017	270							
2/23/2017		330	0.55 (J)	470				
4/17/2017			0.44 (J)					
5/15/2017			0.45 (J)					
6/15/2017	280	310	0.46 (J)	490				
9/28/2017	240	290	0.49 (J)	470				
2/15/2018	266	292	1.9 (O)	432				
6/27/2018	278							
6/28/2018		284	0.24 (J)	453				
12/19/2018	287	319	0.4 (J)					
12/20/2018				463				
1/15/2019					152			
3/19/2019		307						
3/20/2019	268		0.39 (J)	405				
10/16/2019	277		0.29 (J)	432				
10/22/2019					93.2			
12/3/2019		256						
3/5/2020	269	262	<1	370				
6/4/2020							255	
6/19/2020						17		
9/16/2020	270	256	<1					
9/17/2020				356				
3/3/2021		252	<1					
3/4/2021	251			325				
9/22/2021		234						
9/23/2021	258		<1	318				
2/1/2022	256	195		287				
2/2/2022			<1					
8/23/2022			0.307 (J)	389	51		348	
8/24/2022	279	224						
9/1/2022						340		172
1/24/2023	334							
1/25/2023		237	0.325 (J)	291			285	
1/26/2023					75.3	142		147
8/22/2023			0.355 (J)		46.2			
8/23/2023	269	223		274		112		139
8/24/2023							293	
1/30/2024	278				76.9			
1/31/2024		222	0.258 (J)	233		94.4	302	133
8/27/2024			0.279 (J)	233	66.6		294	
8/28/2024	251	201				72.9		128
2/26/2025	266	212	0.348 (J)	199	106	72.2	309	139

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	151	88	138	154				
9/1/2016					299 (O)			
9/7/2016						331	382	
9/8/2016								663
11/15/2016				123	41			
11/16/2016	69	41	77					
11/17/2016						308	382	651
2/20/2017			170	158	133			
2/21/2017	68	<25						
2/22/2017						341	387	706
6/12/2017	161		132	142	61			
6/13/2017		53						
6/14/2017							316	643
6/15/2017						333		
9/26/2017	167	45	108	138	29			
9/27/2017							303	579
9/28/2017						310		
2/13/2018	165	63	141	150	61			
2/15/2018						292	332	612
6/26/2018	188	71	133	154	71			
6/27/2018						353	538	359
12/18/2018	145	78	138	147	70		358	535
12/19/2018						317		
3/19/2019	154	68	130	146	72	303		
3/20/2019							338	517
10/15/2019	140	66	175	144	63			
10/16/2019							281	473
12/3/2019						378		
3/3/2020	155	41	<10	130	54	263		
3/5/2020							292	489
9/15/2020	116	69	100	116	79			
9/16/2020						316	88	392
3/1/2021	98				39			
3/2/2021		43	80	96				
3/3/2021							212	422
3/4/2021						316		
9/21/2021			108	104				
9/22/2021	129	66			62	323	190	406
2/1/2022	126	72	129	124	61	354	209	449
8/23/2022	117	45	107	101	52		614	
8/24/2022						370		452
1/24/2023	93	63	124	104	64	344	615	433
8/22/2023	81	36	80	73	30		778	495
8/23/2023						391		
1/30/2024	98	54	118	113	45	413		
1/31/2024							1420	494
8/27/2024	82	51	107	101	57			
8/28/2024						421	1880	562
2/18/2025	84	44	106	92	46			
2/26/2025						400	2440	609

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	486	528		750				
11/17/2016	453							
11/18/2016		524						
11/21/2016				795				
2/22/2017	541							
2/23/2017		517	45	733				
4/17/2017			53					
5/15/2017			48					
6/15/2017	548	566	63	812				
9/28/2017	487	475	39	690				
2/15/2018	500	513	54	722				
6/27/2018	347							
6/28/2018		499	59	704				
12/19/2018	489	521	68					
12/20/2018				642				
1/15/2019					284			
3/19/2019		498						
3/20/2019	501		68	615				
10/16/2019	481		49	630				
10/22/2019					203			
12/3/2019		498						
3/5/2020	535	457	39	608				
6/4/2020							569	
6/19/2020						140		
9/16/2020	474	463	31					
9/17/2020				587				
3/3/2021		442	33					
3/4/2021	480			540				
9/22/2021		457						
9/23/2021	511		49	528				
2/1/2022	521	441		560				
2/2/2022			46					
8/23/2022			40	568	130		543	
8/24/2022	507	418						
9/1/2022						754		321
1/24/2023	507							
1/25/2023		418	28	484		443	517	
1/26/2023					148			272
8/22/2023			42		112			
8/23/2023	485	398		459		372		252
8/24/2023							499	
1/30/2024	502				161			
1/31/2024		435	37	393		342	547	252
8/27/2024			40	370	140		521	
8/28/2024	479	389				303		259
2/26/2025	490	375	23	329	208	276	512	258

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-33S	BRGWC-34S
8/31/2016	<0.002	<0.002	<0.002	<0.002				
9/1/2016					<0.002			
9/7/2016						<0.002	0.0002 (J)	
9/8/2016								<0.002
11/15/2016				<0.002	<0.002			
11/16/2016	<0.002	<0.002	<0.002					
11/17/2016						<0.002	0.0002 (J)	<0.002
2/20/2017			<0.002	<0.002	<0.002			
2/21/2017	<0.002	<0.002						
2/22/2017						<0.002	0.0002 (J)	<0.002
6/12/2017	<0.002		<0.002	<0.002	<0.002			
6/13/2017		<0.002						
6/14/2017							0.0002 (J)	<0.002
6/15/2017						<0.002		
9/26/2017	<0.002	<0.002	<0.002	<0.002	<0.002			
9/27/2017							0.0002 (J)	<0.002
9/28/2017						<0.002		
2/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
2/15/2018						<0.002	0.00024 (J)	<0.002
6/26/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
6/27/2018						<0.002	0.00022 (J)	<0.002
12/18/2018	<0.002	<0.002	<0.002	<0.002	<0.002		0.00022 (J)	<0.002
12/19/2018						<0.002		
8/27/2019	<0.002	<0.002	<0.002	<0.002	<0.002		0.00016 (J)	
8/28/2019						<0.002		<0.002
10/15/2019	<0.002	<0.002	<0.002	<0.002	<0.002			
10/16/2019							0.00019 (J)	<0.002
12/3/2019						6.6E-05 (J)		
3/3/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
3/5/2020							0.0002 (J)	<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002			
8/19/2020						<0.002	0.00018 (J)	<0.002
9/15/2020	<0.002	<0.002	<0.002	<0.002	<0.002			
9/16/2020						<0.002	0.00018 (J)	<0.002
3/1/2021	<0.002				<0.002			
3/2/2021		<0.002	<0.002	<0.002				
3/3/2021							0.00018 (J)	<0.002
3/4/2021						<0.002		
9/21/2021			<0.002	<0.002				
9/22/2021	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/23/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
8/24/2022						<0.002		<0.002
1/24/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/22/2023	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
8/23/2023						<0.002		
1/30/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		
1/31/2024							<0.002	<0.002
8/27/2024	<0.002	<0.002	<0.002	<0.002	<0.002			
8/28/2024						<0.002	<0.002	<0.002
2/18/2025	<0.002	<0.002	<0.002	<0.002	<0.002			
2/26/2025						<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 12:28 PM

Plant Branch Client: Southern Company Data: Branch Pond E

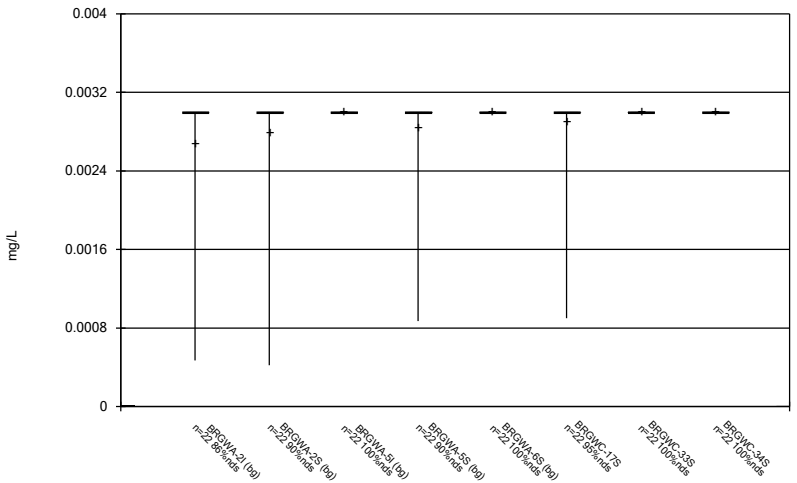
	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	<0.002	<0.002		<0.002				
11/17/2016	<0.002							
11/18/2016		<0.002						
11/21/2016				0.0004 (J)				
2/22/2017	<0.002							
2/23/2017		<0.002	<0.002	0.0003 (J)				
4/17/2017			<0.002					
5/15/2017			<0.002					
6/15/2017	<0.002	<0.002	<0.002	0.0003 (J)				
9/28/2017	<0.002	<0.002	<0.002	0.0003 (J)				
2/15/2018	<0.002	<0.002	<0.002	0.00026 (J)				
6/27/2018	<0.002							
6/28/2018		<0.002	<0.002	0.00018 (J)				
12/19/2018	<0.002	<0.002	<0.002					
12/20/2018				0.00023 (J)				
1/15/2019					<0.002			
8/28/2019	<0.002	<0.002	<0.002					
8/29/2019				0.00021 (J)				
10/16/2019	<0.002		<0.002	0.0002 (J)				
10/22/2019					<0.002			
12/3/2019		<0.002						
3/5/2020	<0.002	<0.002	<0.002	0.0002 (J)				
8/19/2020	<0.002	<0.002	<0.002	0.00019 (J)				
9/16/2020	<0.002	<0.002	<0.002					
9/17/2020				0.00017 (J)				
3/3/2021		<0.002	<0.002					
3/4/2021	<0.002			<0.002				
9/22/2021		<0.002						
9/23/2021	<0.002		<0.002	0.00022 (J)				
2/1/2022	<0.002	<0.002		<0.002				
2/2/2022			<0.002					
8/23/2022			<0.002	<0.002	<0.002		<0.002	
8/24/2022	<0.002	<0.002						
9/1/2022								<0.002
1/24/2023	<0.002							
1/25/2023		<0.002	<0.002	<0.002		<0.002	<0.002	
1/26/2023					<0.002			<0.002
8/22/2023			<0.002		<0.002			
8/23/2023	<0.002	<0.002		<0.002		<0.002		<0.002
8/24/2023							<0.002	
1/30/2024	<0.002				<0.002			
1/31/2024		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
8/27/2024			<0.002	<0.002	<0.002		<0.002	
8/28/2024	<0.002	<0.002				<0.002		<0.002
2/26/2025	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

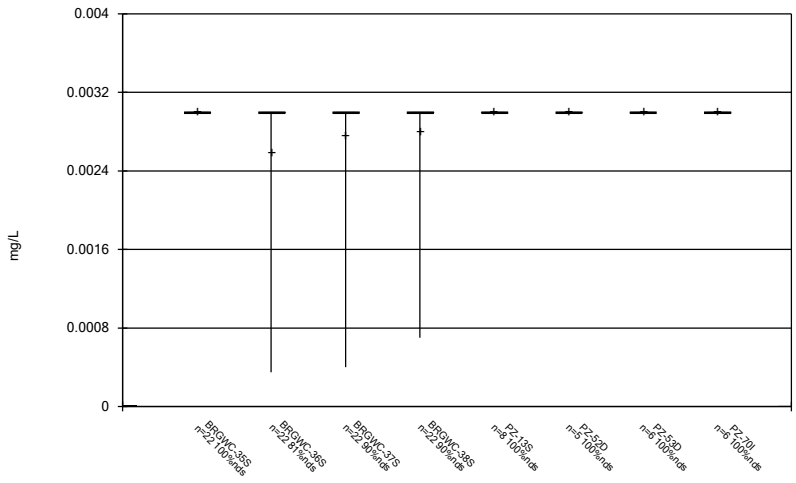


Constituent: Antimony Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

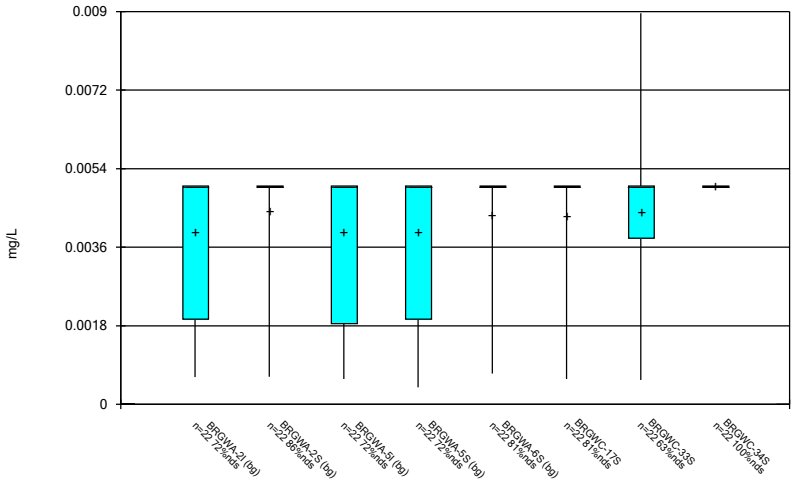


Constituent: Antimony Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

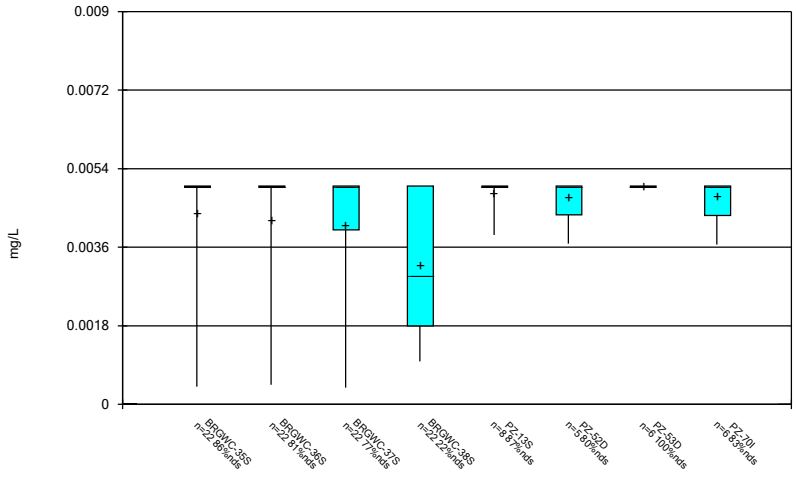


Constituent: Arsenic Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

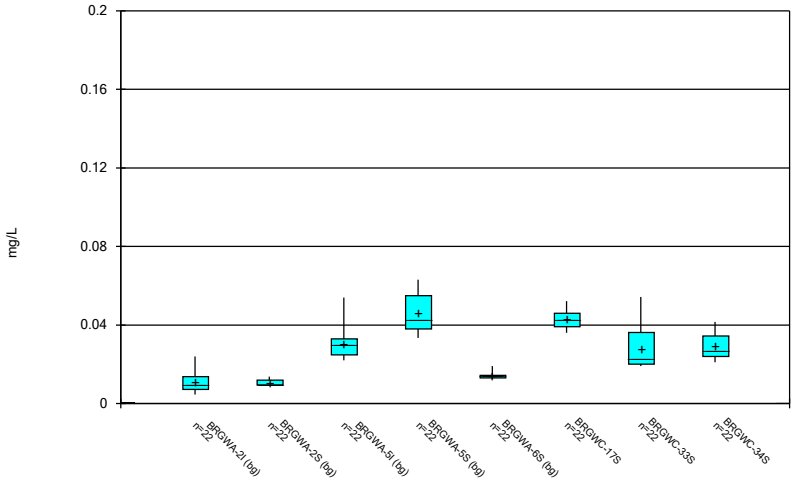


Constituent: Arsenic Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

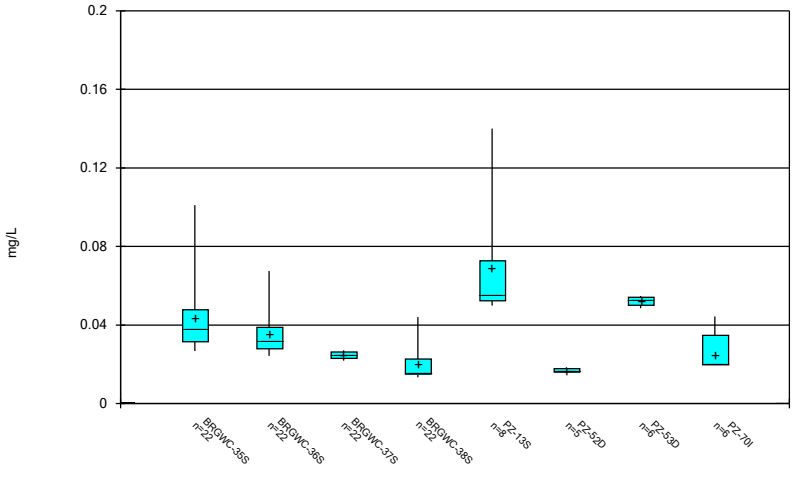


Constituent: Barium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

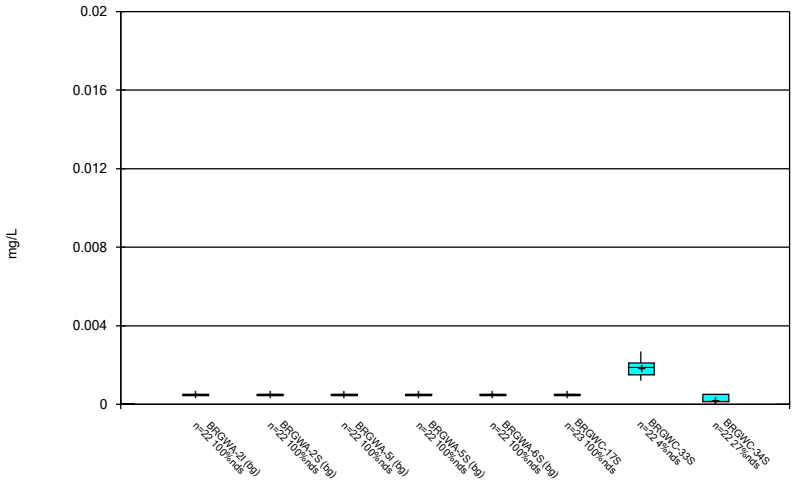


Constituent: Barium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

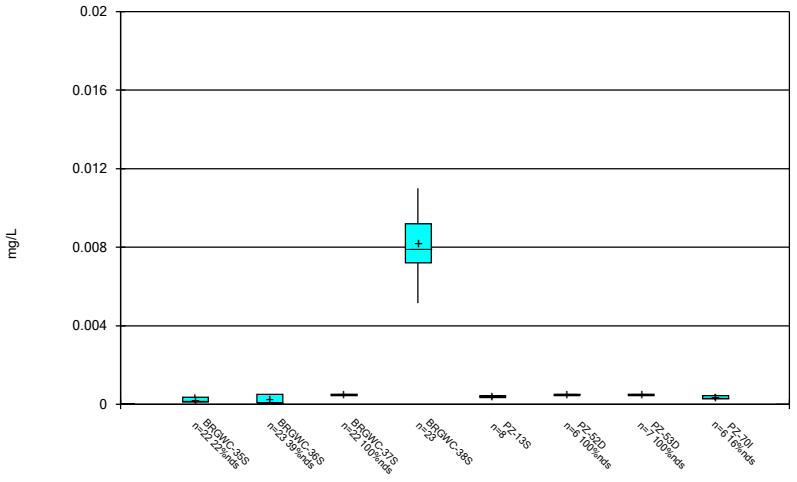


Constituent: Beryllium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

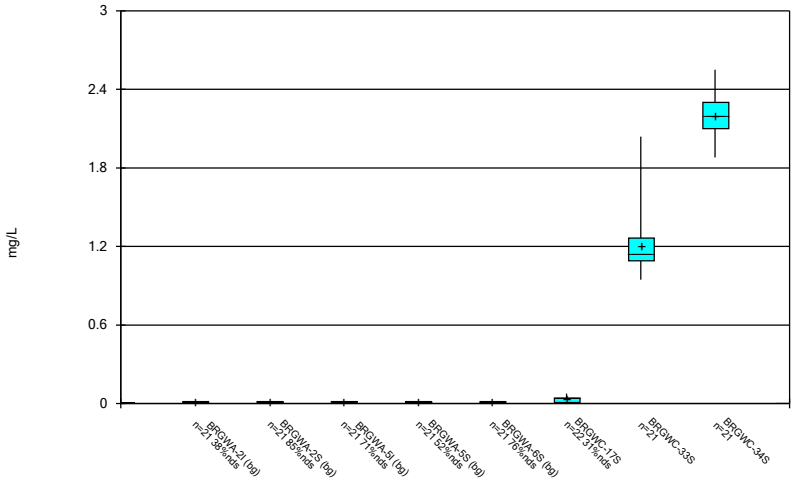


Constituent: Beryllium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

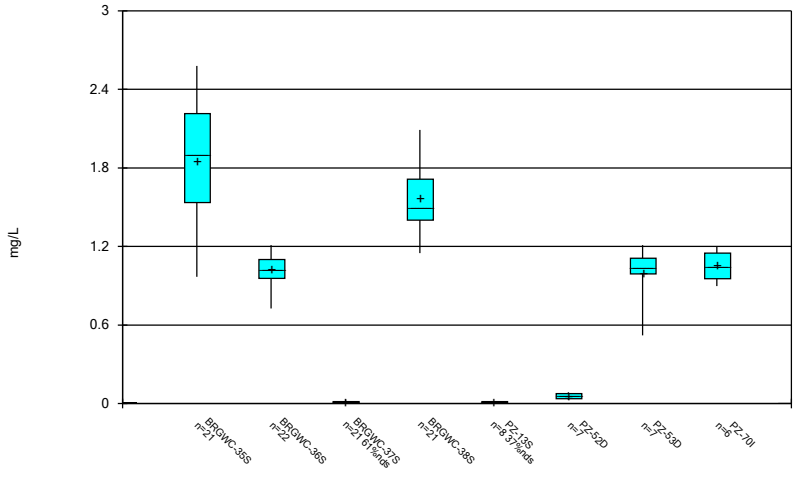


Constituent: Boron Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

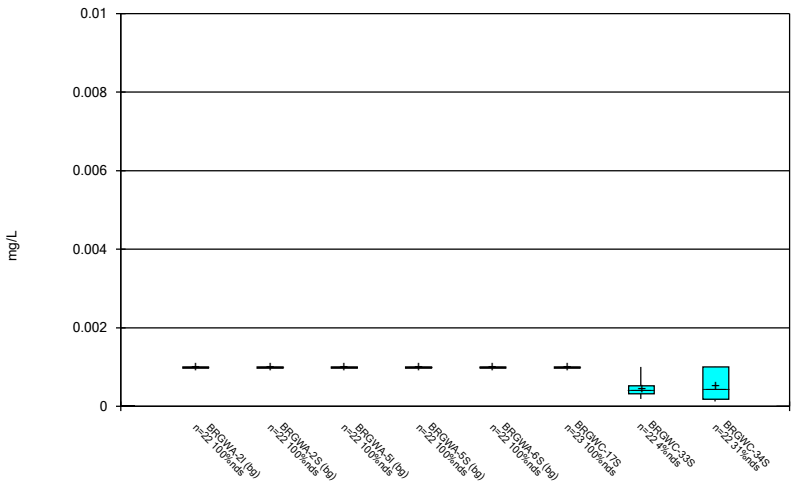


Constituent: Boron Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

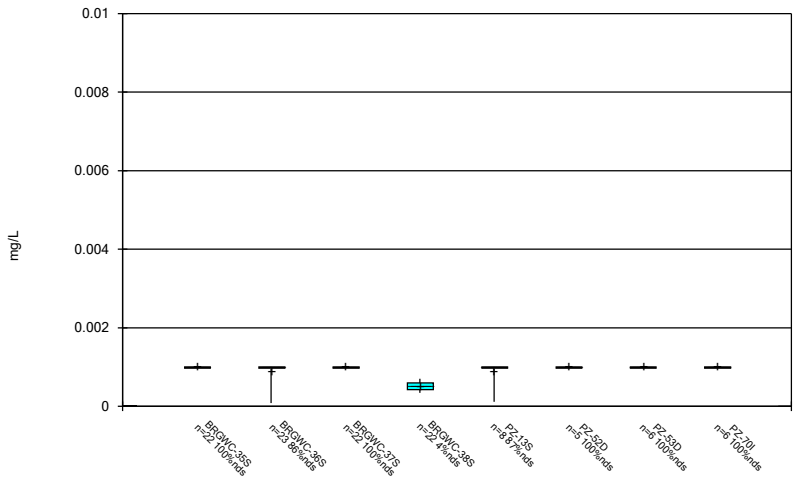


Constituent: Cadmium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

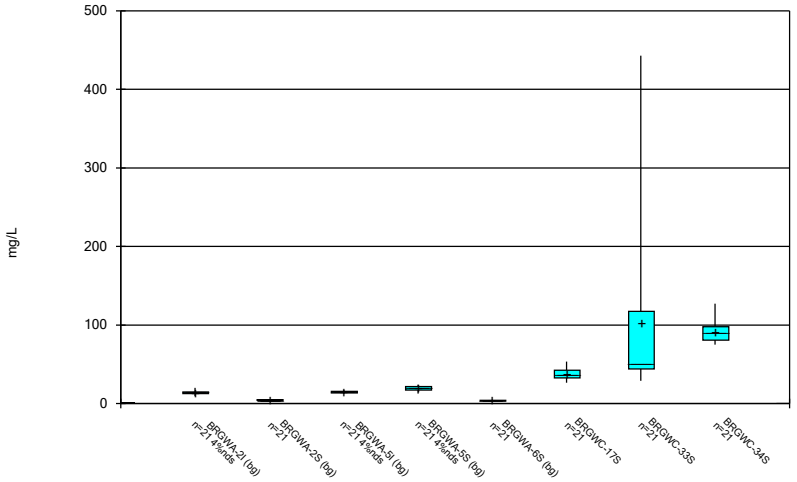


Constituent: Cadmium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

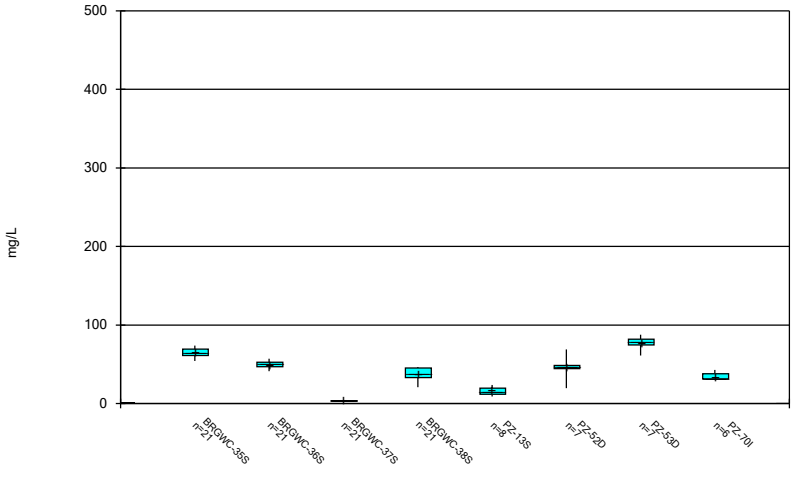


Constituent: Calcium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

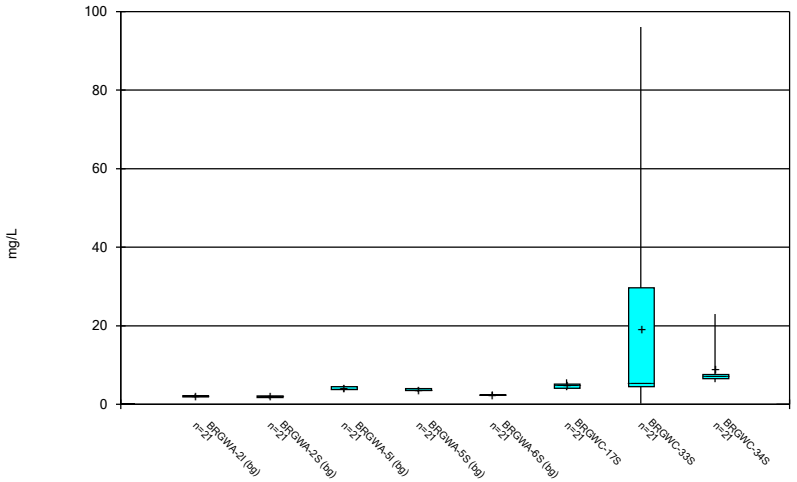


Constituent: Calcium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

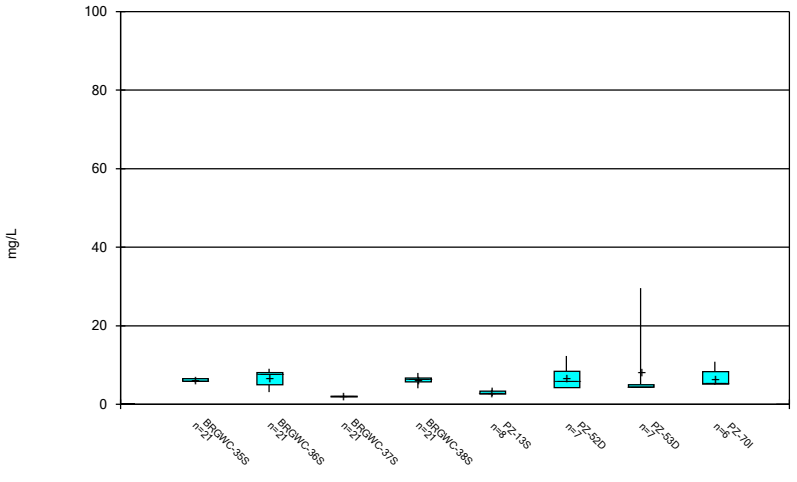


Constituent: Chloride Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

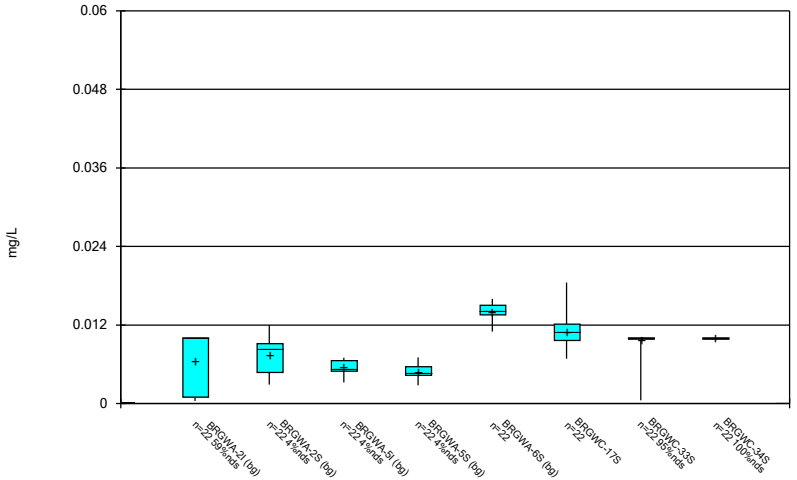


Constituent: Chloride Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

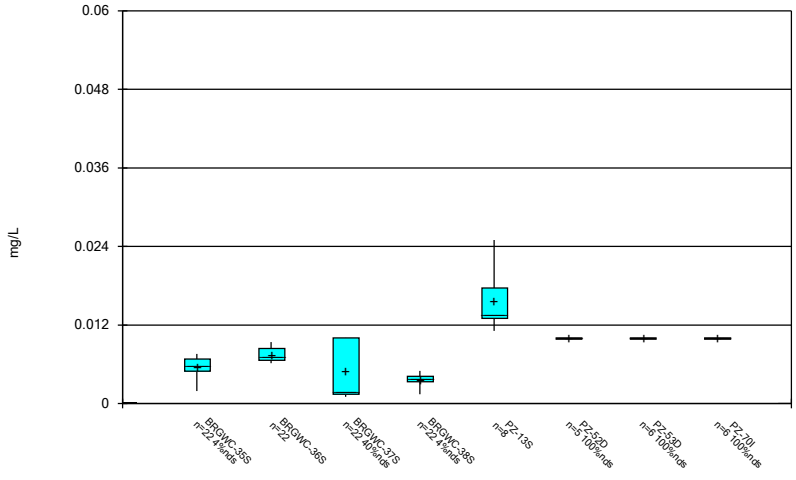


Constituent: Chromium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

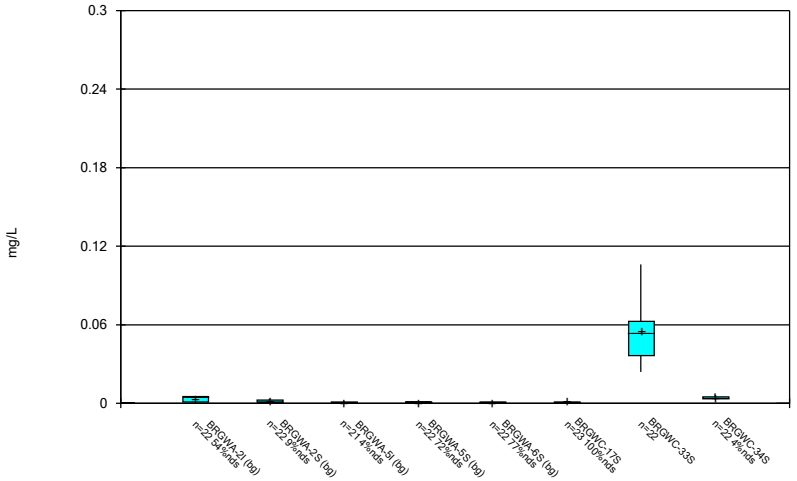


Constituent: Chromium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

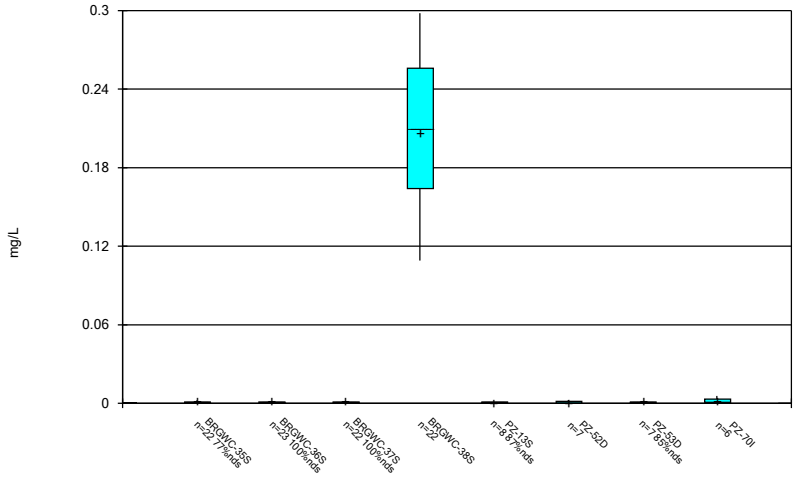


Constituent: Cobalt Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

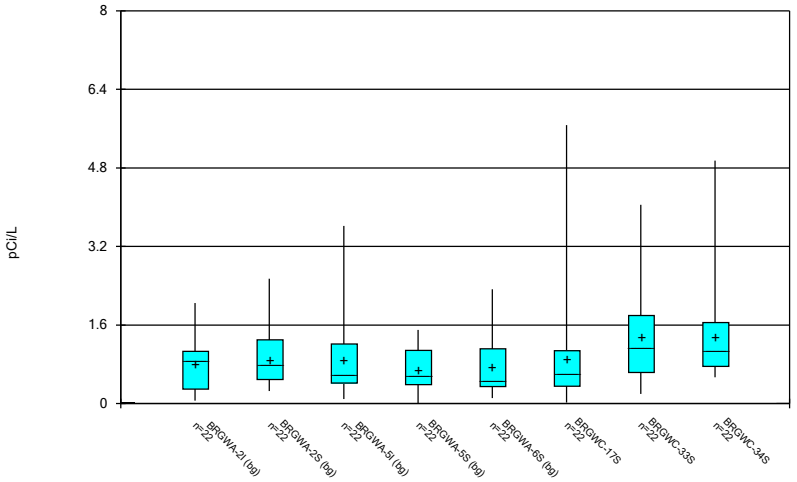


Constituent: Cobalt Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

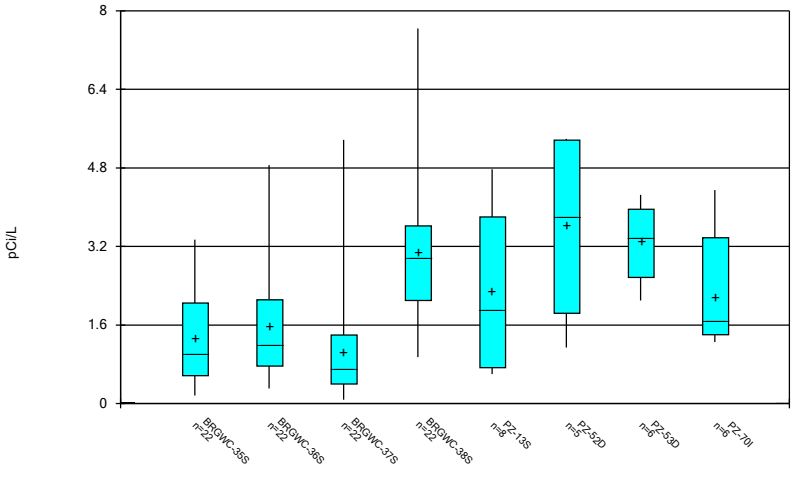


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

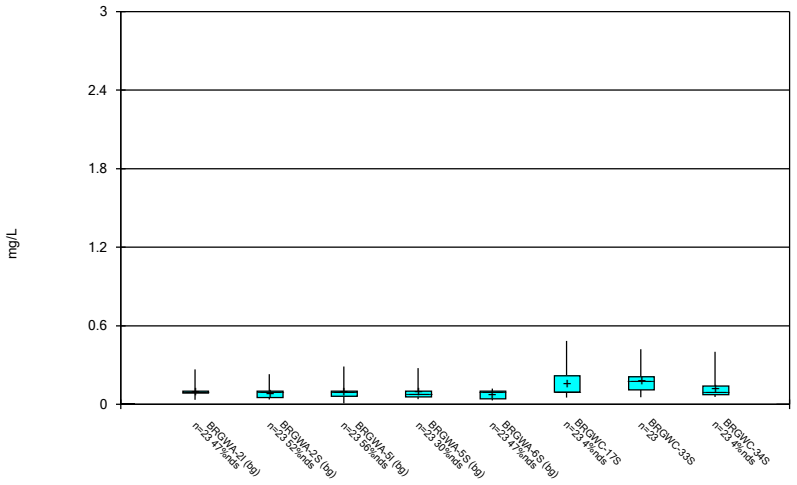


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

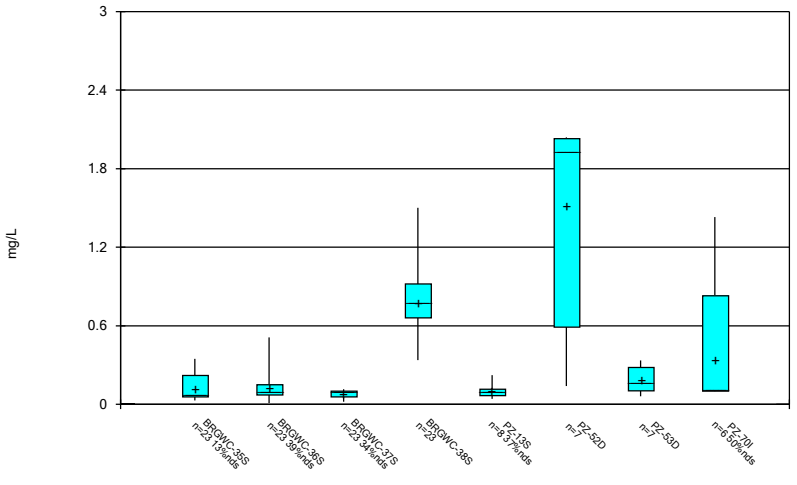


Constituent: Fluoride Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

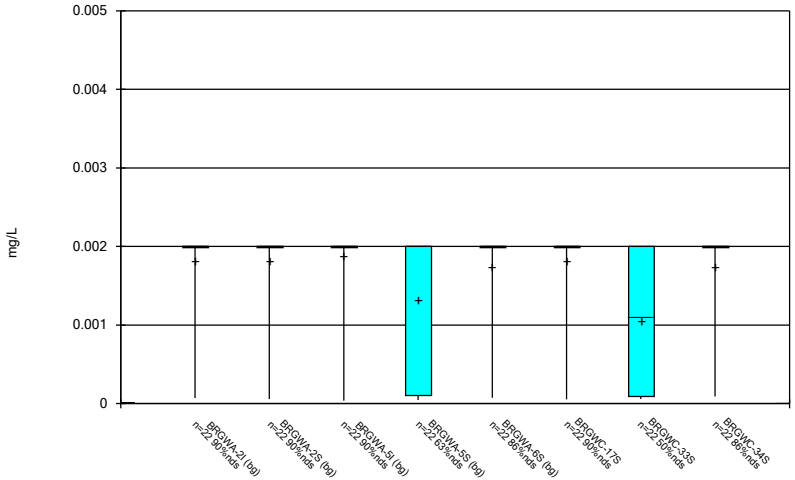


Constituent: Fluoride Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

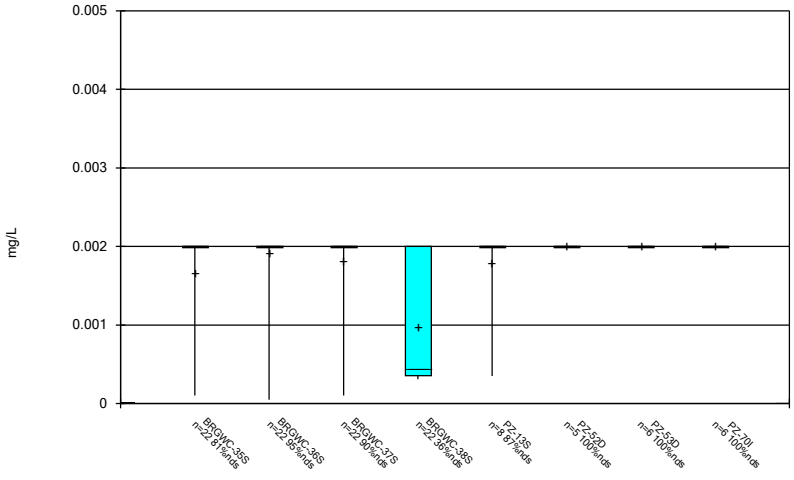


Constituent: Lead Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

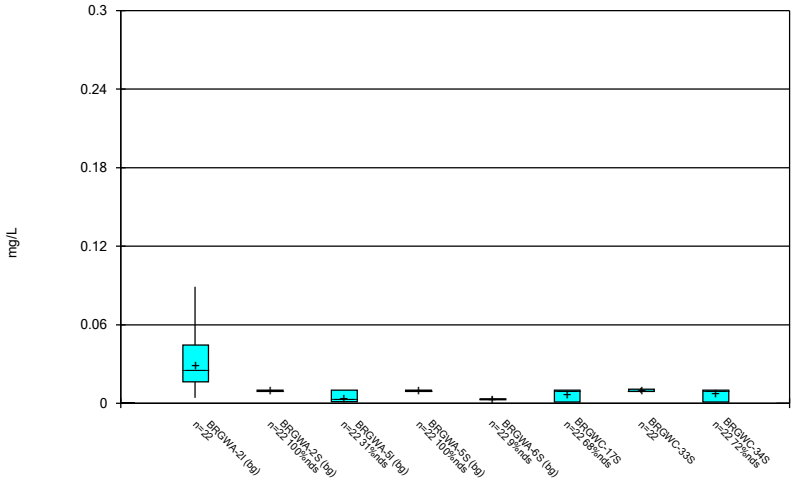


Constituent: Lead Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

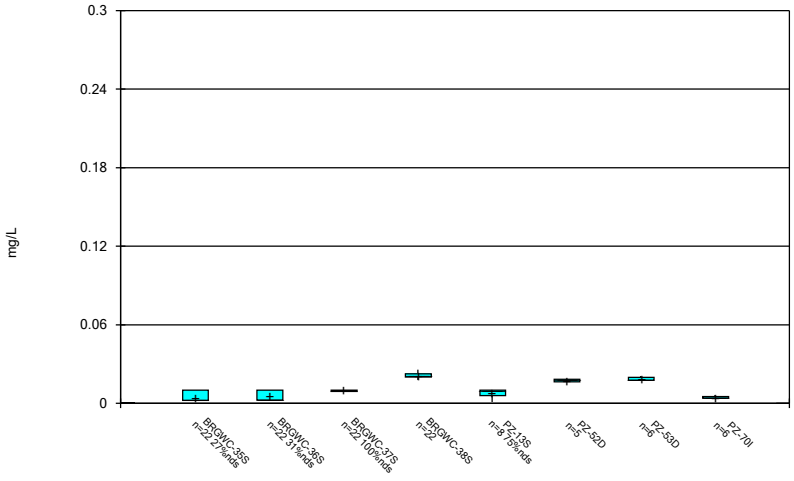


Constituent: Lithium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

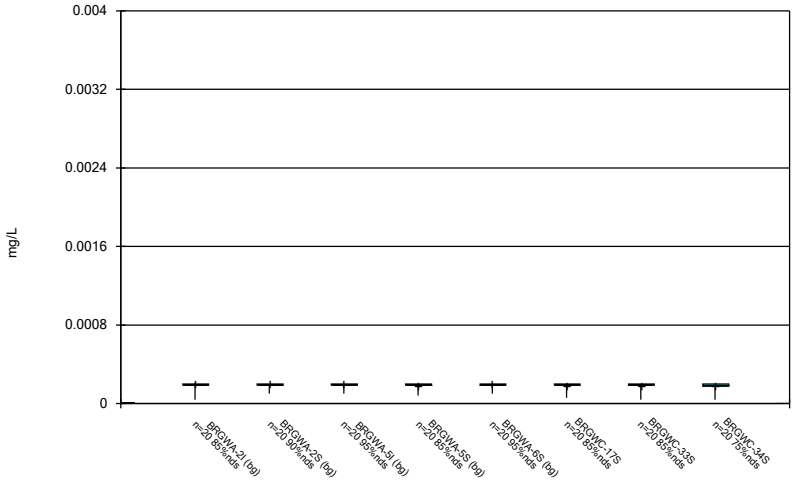


Constituent: Lithium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

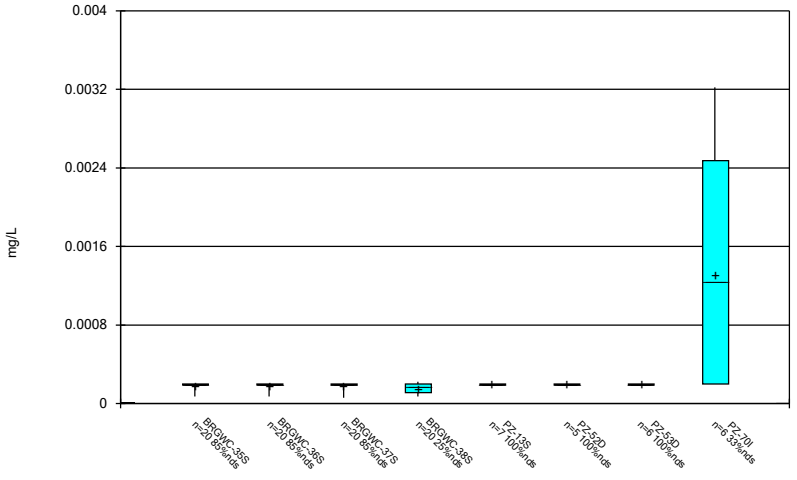


Constituent: Mercury Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

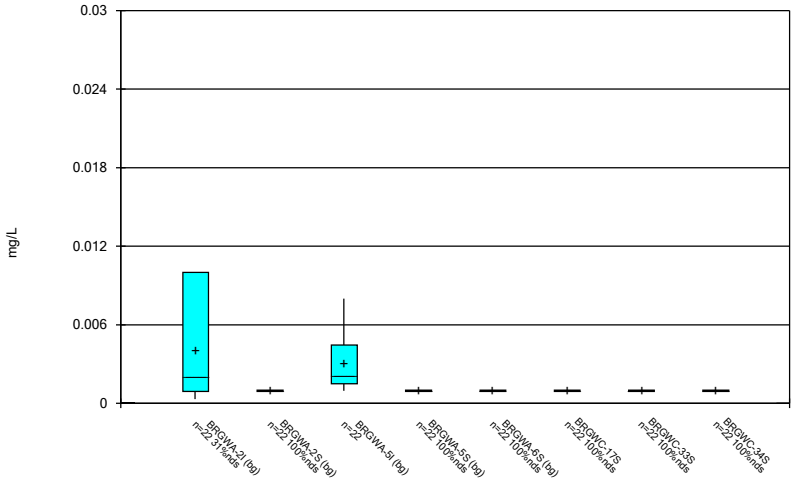


Constituent: Mercury Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

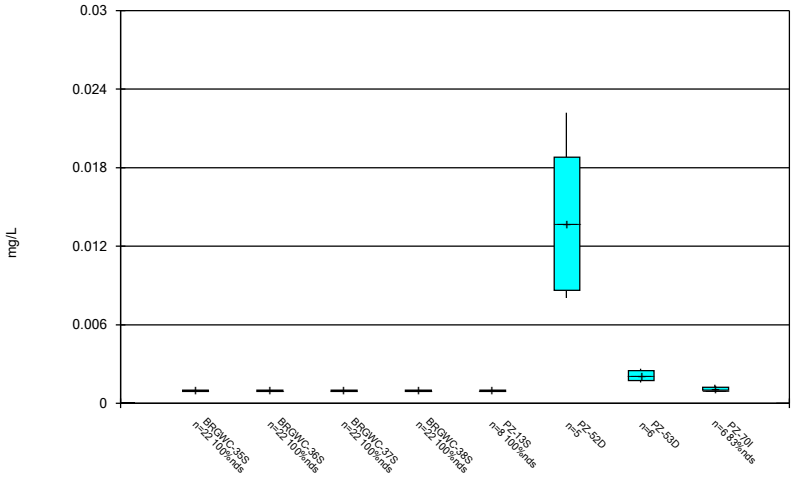


Constituent: Molybdenum Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

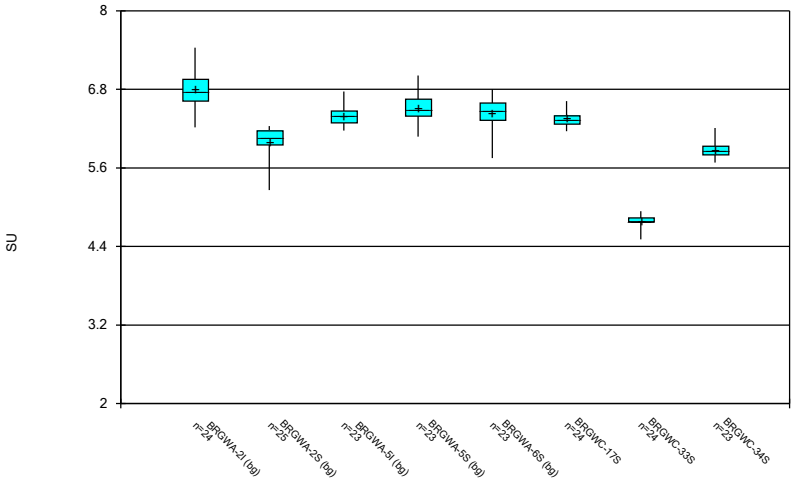


Constituent: Molybdenum Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

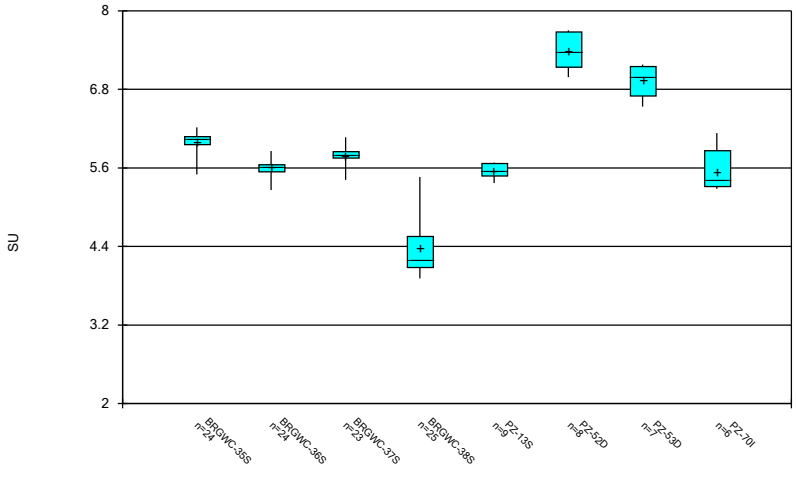


Constituent: pH, Field Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

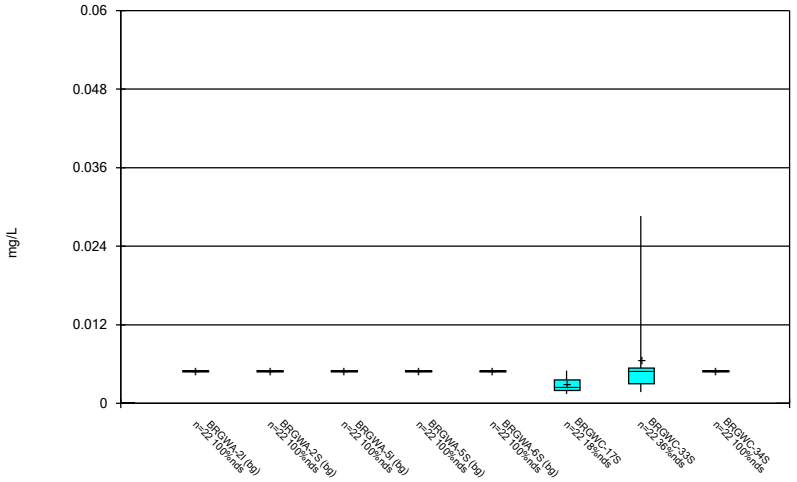


Constituent: pH, Field Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

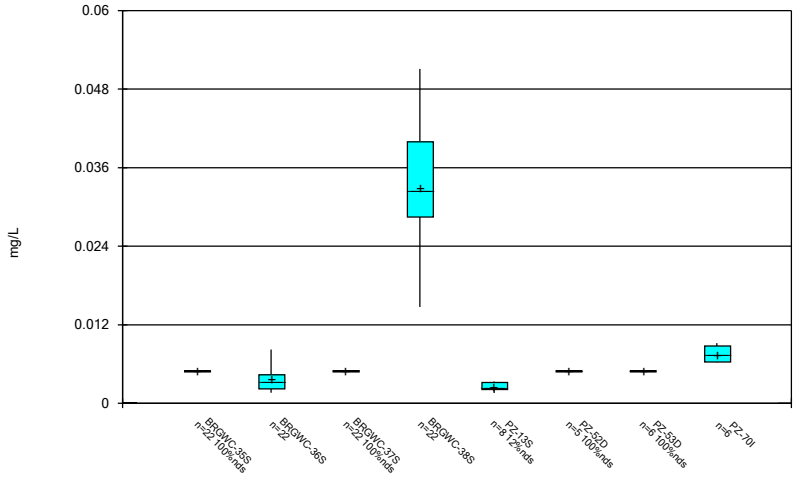


Constituent: Selenium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

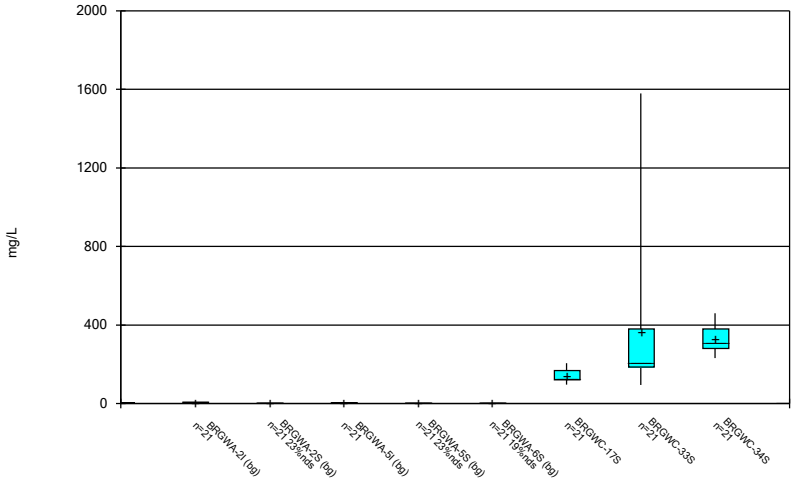


Constituent: Selenium Analysis Run 5/21/2025 12:30 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

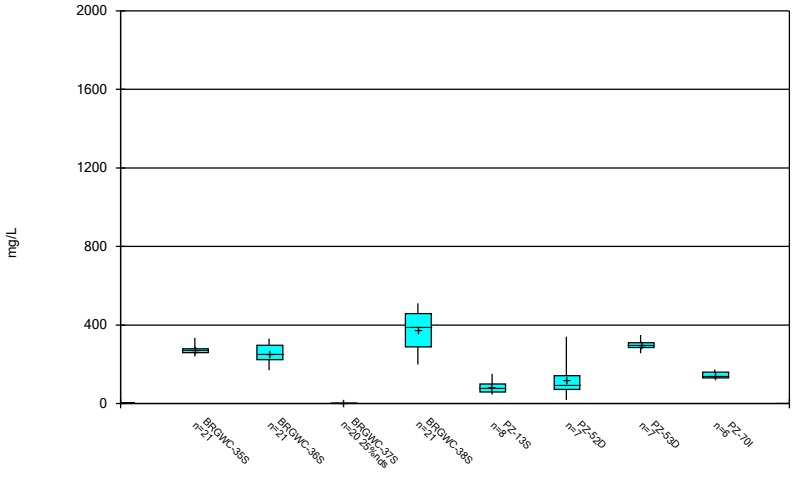


Constituent: Sulfate Analysis Run 5/21/2025 12:31 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

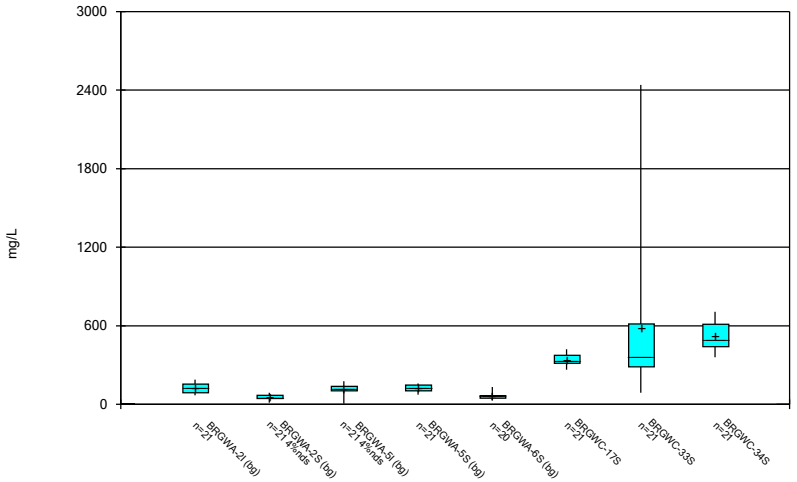


Constituent: Sulfate Analysis Run 5/21/2025 12:31 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

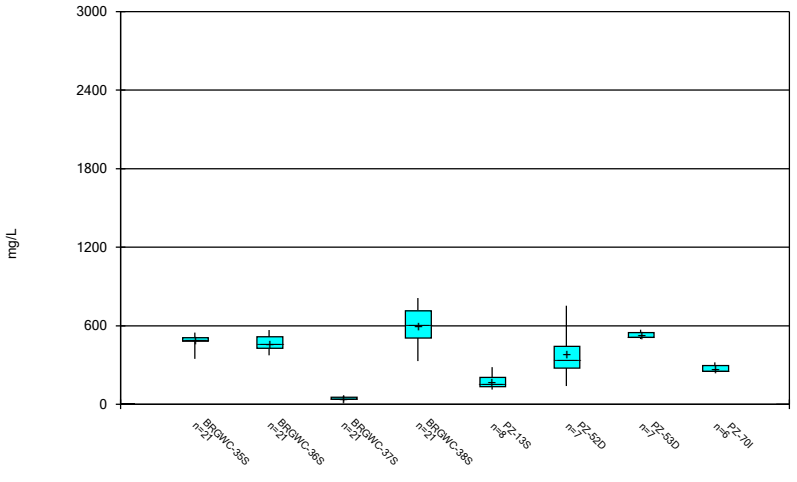


Constituent: TDS Analysis Run 5/21/2025 12:31 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

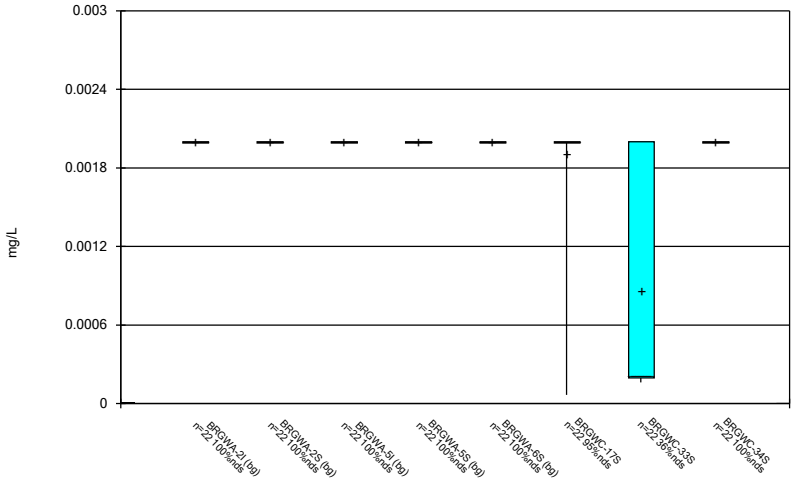


Constituent: TDS Analysis Run 5/21/2025 12:31 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

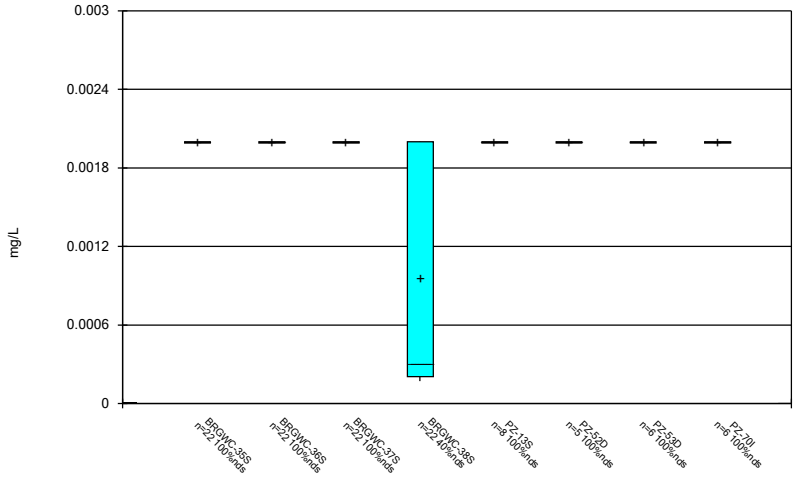


Constituent: Thallium Analysis Run 5/21/2025 12:31 PM

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/21/2025 12:31 PM

Plant Branch Client: Southern Company Data: Branch Pond E

FIGURE C.

Outlier Summary

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/22/2025, 8:34 AM

	BRGWA-5I Cobalt (mg/L)	BRGWC-37S Sulfate (mg/L)	BRGWA-6S TDS (mg/L)
9/1/2016			299 (O)
2/13/2018	<0.01 (O)		
2/15/2018		1.9 (O)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BRGWC-17S	0.0187	n/a	2/26/2025	0.0756	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-33S	0.0187	n/a	2/26/2025	2.04	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-34S	0.0187	n/a	2/26/2025	2.19	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-35S	0.0187	n/a	2/26/2025	2.58	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-36S	0.0187	n/a	2/26/2025	1.21	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	BRGWC-38S	0.0187	n/a	2/26/2025	1.15	Yes	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Calcium (mg/L)	BRGWC-17S	24	n/a	2/26/2025	49.9	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-33S	24	n/a	2/26/2025	443	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-34S	24	n/a	2/26/2025	127	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-35S	24	n/a	2/26/2025	67.8	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-36S	24	n/a	2/26/2025	42.5	Yes	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-17S	4.8	n/a	2/26/2025	5.96	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-33S	4.8	n/a	2/26/2025	96.1	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-34S	4.8	n/a	2/26/2025	23	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-35S	4.8	n/a	2/26/2025	6.55	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-36S	4.8	n/a	2/26/2025	8.26	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	BRGWC-38S	4.8	n/a	2/26/2025	6.76	Yes	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-38S	0.289	n/a	2/26/2025	0.336	Yes	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
pH, Field (SU)	BRGWC-33S	7.063	5.791	2/26/2025	4.94	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-36S	7.063	5.791	2/26/2025	5.64	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-37S	7.063	5.791	2/26/2025	5.73	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-38S	7.063	5.791	2/26/2025	4.23	Yes	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
Sulfate (mg/L)	BRGWC-17S	7.5	n/a	2/26/2025	206	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-33S	7.5	n/a	2/26/2025	1580	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-34S	7.5	n/a	2/26/2025	400	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-35S	7.5	n/a	2/26/2025	266	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-36S	7.5	n/a	2/26/2025	212	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BRGWC-38S	7.5	n/a	2/26/2025	199	Yes	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	BRGWC-17S	192.1	n/a	2/26/2025	400	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-33S	192.1	n/a	2/26/2025	2440	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-34S	192.1	n/a	2/26/2025	609	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-35S	192.1	n/a	2/26/2025	490	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-36S	192.1	n/a	2/26/2025	375	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	BRGWC-38S	192.1	n/a	2/26/2025	329	Yes	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:38 PM

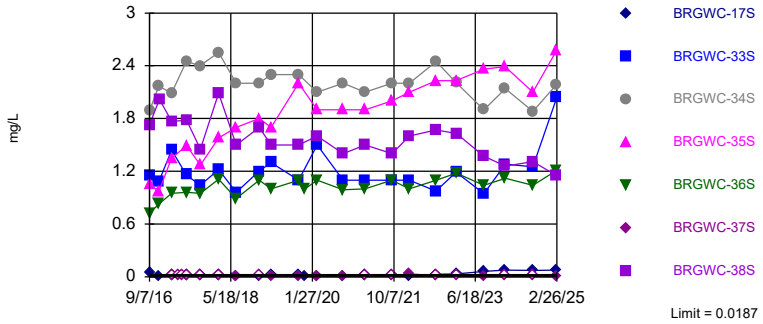
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**BRGWC-17S**	**0.0187**	**n/a**	**2/26/2025**	**0.0756**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-33S**	**0.0187**	**n/a**	**2/26/2025**	**2.04**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-34S**	**0.0187**	**n/a**	**2/26/2025**	**2.19**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-35S**	**0.0187**	**n/a**	**2/26/2025**	**2.58**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**BRGWC-36S**	**0.0187**	**n/a**	**2/26/2025**	**1.21**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	BRGWC-37S	0.0187	n/a	2/26/2025	0.00753J	No	105	n/a	n/a	64.76	n/a	n/a	0.0001784	NP Inter (NDs) 1 of 2
Boron (mg/L)	**BRGWC-38S**	**0.0187**	**n/a**	**2/26/2025**	**1.15**	**Yes**	**105**	**n/a**	**n/a**	**64.76**	**n/a**	**n/a**	**0.0001784**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**BRGWC-17S**	**24**	**n/a**	**2/26/2025**	**49.9**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-33S**	**24**	**n/a**	**2/26/2025**	**443**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-34S**	**24**	**n/a**	**2/26/2025**	**127**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-35S**	**24**	**n/a**	**2/26/2025**	**67.8**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**BRGWC-36S**	**24**	**n/a**	**2/26/2025**	**42.5**	**Yes**	**105**	**n/a**	**n/a**	**2.857**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	BRGWC-37S	24	n/a	2/26/2025	3.77	No	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	BRGWC-38S	24	n/a	2/26/2025	20.9	No	105	n/a	n/a	2.857	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-17S**	**4.8**	**n/a**	**2/26/2025**	**5.96**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-33S**	**4.8**	**n/a**	**2/26/2025**	**96.1**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-34S**	**4.8**	**n/a**	**2/26/2025**	**23**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-35S**	**4.8**	**n/a**	**2/26/2025**	**6.55**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**BRGWC-36S**	**4.8**	**n/a**	**2/26/2025**	**8.26**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	BRGWC-37S	4.8	n/a	2/26/2025	1.97	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	**BRGWC-38S**	**4.8**	**n/a**	**2/26/2025**	**6.76**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	BRGWC-17S	0.289	n/a	2/26/2025	0.0663J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-33S	0.289	n/a	2/26/2025	0.143	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-34S	0.289	n/a	2/26/2025	0.1	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-35S	0.289	n/a	2/26/2025	0.0472J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-36S	0.289	n/a	2/26/2025	0.0348J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BRGWC-37S	0.289	n/a	2/26/2025	0.0523J	No	115	n/a	n/a	46.96	n/a	n/a	0.0001494	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**BRGWC-38S**	**0.289**	**n/a**	**2/26/2025**	**0.336**	**Yes**	**115**	**n/a**	**n/a**	**46.96**	**n/a**	**n/a**	**0.0001494**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	BRGWC-17S	7.063	5.791	2/26/2025	6.26	No	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	**BRGWC-33S**	**7.063**	**5.791**	**2/26/2025**	**4.94**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (SU)	BRGWC-34S	7.063	5.791	2/26/2025	5.97	No	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	BRGWC-35S	7.063	5.791	2/26/2025	5.94	No	118	6.427	0.3398	0	None	No	0.0005373	Param Inter 1 of 2
pH, Field (SU)	**BRGWC-36S**	**7.063**	**5.791**	**2/26/2025**	**5.64**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (SU)	**BRGWC-37S**	**7.063**	**5.791**	**2/26/2025**	**5.73**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
pH, Field (SU)	**BRGWC-38S**	**7.063**	**5.791**	**2/26/2025**	**4.23**	**Yes**	**118**	**6.427**	**0.3398**	**0**	**None**	**No**	**0.0005373**	**Param Inter 1 of 2**
Sulfate (mg/L)	**BRGWC-17S**	**7.5**	**n/a**	**2/26/2025**	**206**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-33S**	**7.5**	**n/a**	**2/26/2025**	**1580**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-34S**	**7.5**	**n/a**	**2/26/2025**	**400**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-35S**	**7.5**	**n/a**	**2/26/2025**	**266**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**BRGWC-36S**	**7.5**	**n/a**	**2/26/2025**	**212**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	BRGWC-37S	7.5	n/a	2/26/2025	0.348J	No	105	n/a	n/a	13.33	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**BRGWC-38S**	**7.5**	**n/a**	**2/26/2025**	**199**	**Yes**	**105**	**n/a**	**n/a**	**13.33**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**BRGWC-17S**	**192.1**	**n/a**	**2/26/2025**	**400**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-33S**	**192.1**	**n/a**	**2/26/2025**	**2440**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-34S**	**192.1**	**n/a**	**2/26/2025**	**609**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-35S**	**192.1**	**n/a**	**2/26/2025**	**490**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	**BRGWC-36S**	**192.1**	**n/a**	**2/26/2025**	**375**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
TDS (mg/L)	BRGWC-37S	192.1	n/a	2/26/2025	23	No	104	9.509	2.315	1.923	None	sqrt(x)	0.001075	Param Inter 1 of 2
TDS (mg/L)	**BRGWC-38S**	**192.1**	**n/a**	**2/26/2025**	**329**	**Yes**	**104**	**9.509**	**2.315**	**1.923**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 105 background values. 64.76% NDs. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

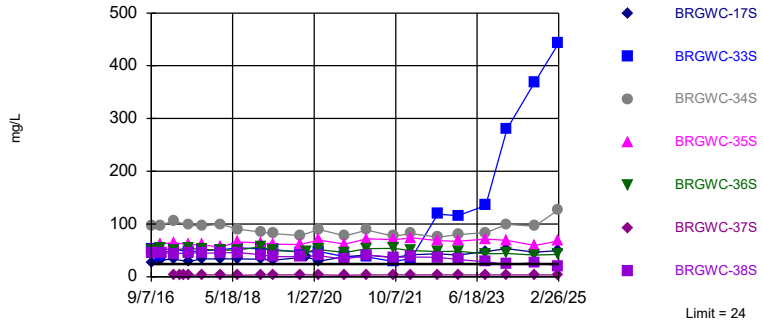
Constituent: Boron Analysis Run 5/21/2025 12:35 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 2.857% NDs. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

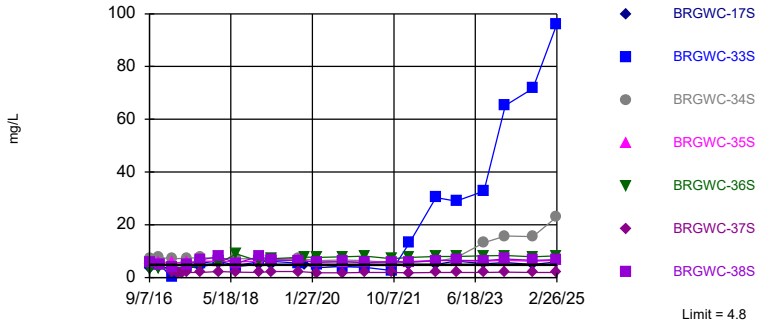
Constituent: Calcium Analysis Run 5/21/2025 12:35 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

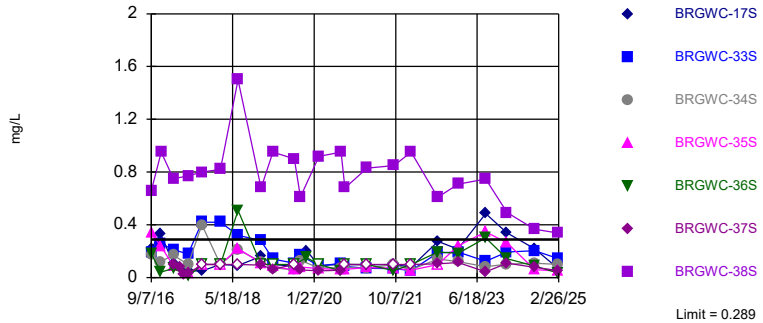
Constituent: Chloride Analysis Run 5/21/2025 12:35 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 115 background values. 46.96% NDs. Annual per-constituent alpha = 0.00209. Individual comparison alpha = 0.0001494 (1 of 2). Comparing 7 points to limit.

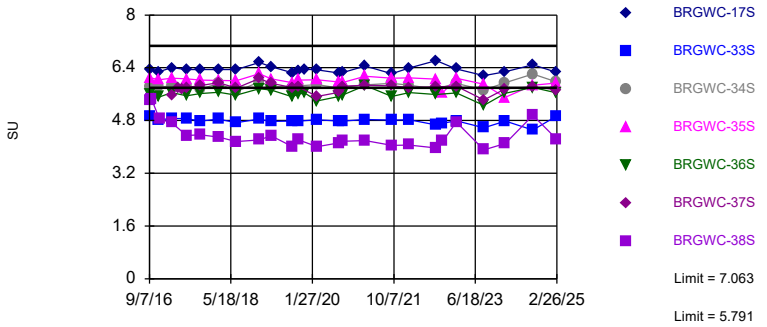
Constituent: Fluoride Analysis Run 5/21/2025 12:35 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limits: BRGWC-33S, BRGWC-36S, BRGWC-37S, BRGWC-38S

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=6.427, Std. Dev.=0.3398, n=118. Normality test: Chi Squared @alpha = 0.01, calculated = 6.576, critical = 14.07. Kappa = 1.871 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005373. Comparing 7 points to limit.

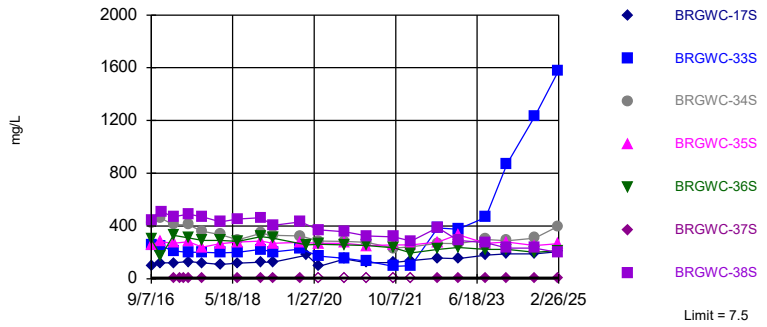
Constituent: pH, Field Analysis Run 5/21/2025 12:35 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 13.33% NDs. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

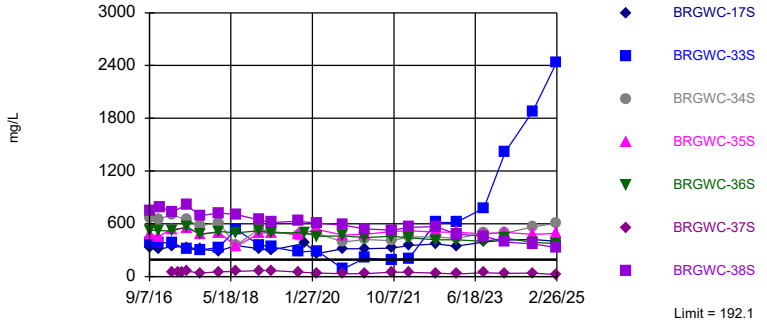
Constituent: Sulfate Analysis Run 5/21/2025 12:35 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: BRGWC-17S, BRGWC-33S, BRGWC-34S, BRGWC-35S, BRGWC-36S, BRGWC-38S

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=9.509, Std. Dev.=2.315, n=104, 1.923% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.15, critical = 14.07. Kappa = 1.879 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: TDS Analysis Run 5/21/2025 12:35 PM View: Appendix III - Interwell PLs
Plant Branch Client: Southern Company Data: Branch Pond E

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-38S	BRGWC-33S	BRGWC-36S
8/31/2016	0.0072 (J)	<0.015	<0.015	<0.015					
9/1/2016					<0.015				
9/7/2016						1.06	1.73	1.15	0.725
9/8/2016									
11/15/2016		0.0085 (J)			0.0123 (J)				
11/16/2016	0.0117 (J)		0.0187 (J)	0.0109 (J)					
11/17/2016						0.967		1.08	
11/18/2016									0.831
11/21/2016							2.02		
2/20/2017		0.0093 (J)	0.0066 (J)		0.0157 (J)				
2/21/2017	0.0088 (J)			<0.015					
2/22/2017						1.35		1.44	
2/23/2017							1.77		0.949
4/17/2017									
5/15/2017									
6/12/2017	0.0133 (J)	<0.015	<0.015		<0.015				
6/13/2017				<0.015					
6/14/2017								1.16	
6/15/2017						1.49	1.78		0.961
9/26/2017	0.0093 (J)	<0.015	<0.015	<0.015	<0.015				
9/27/2017								1.04	
9/28/2017						1.27	1.45		0.948
2/13/2018	0.0141 (J)	<0.015	<0.015	<0.015	<0.015				
2/15/2018						1.58	2.09	1.22	1.11
6/26/2018	0.012 (J)	0.0056 (J)	0.0042 (J)	<0.015	0.0041 (J)				
6/27/2018						1.7		0.96	
6/28/2018							1.5		0.89
12/18/2018	0.0086 (J)	0.0062 (J)	<0.015	<0.015	<0.015			1.2	
12/19/2018						1.8			1.1
12/20/2018							1.7		
3/19/2019	0.0055 (J)	<0.015	<0.015	<0.015	<0.015				1
3/20/2019						1.7	1.5	1.3	
10/15/2019	0.0067 (J)	0.006 (J)	<0.015	<0.015	0.01 (J)				
10/16/2019						2.2	1.5	1.1	
10/17/2019									1.1
12/3/2019									1
3/3/2020	0.0082 (J)	<0.015	<0.015	<0.015	<0.015				
3/5/2020						1.9	1.6	1.5	1.1
9/15/2020	<0.015	<0.015	<0.015	<0.015	<0.015				
9/16/2020						1.9		1.1	0.99
9/17/2020							1.4		
3/1/2021	<0.015				<0.015				
3/2/2021		0.0071 (J)	0.0053 (J)	<0.015					
3/3/2021								1.1	1
3/4/2021						1.9	1.5		
9/21/2021		<0.015	<0.015						
9/22/2021	<0.015			<0.015	<0.015			1.1	1.1
9/23/2021						2	1.4		
2/1/2022	<0.015	<0.015	<0.015	<0.015	<0.015	2.1	1.6	1.1	1
2/2/2022									
8/23/2022	0.00592 (J)	0.00538 (J)	<0.015	0.00532 (J)	<0.015		1.67	0.975	
8/24/2022						2.23			1.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-35S	BRGWC-38S	BRGWC-33S	BRGWC-36S
1/24/2023	<0.015	<0.015	<0.015	<0.015	<0.015	2.23		1.19	
1/25/2023							1.63		1.18
8/22/2023	0.00649 (J)	0.00764 (J)	0.0073 (J)	0.00738 (J)	0.00611 (J)			0.946	
8/23/2023						2.36	1.37		1.04
1/30/2024	<0.015	<0.015	<0.015	<0.015	<0.015	2.39			
1/31/2024							1.26	1.28	1.12
8/27/2024	<0.015	0.00538 (J)	<0.015	<0.015	<0.015		1.31		
8/28/2024						2.1		1.25	1.04
2/18/2025	<0.015	0.00548 (J)	0.00591 (J)	<0.015	<0.015				
2/26/2025						2.58	1.15	2.04	1.21

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.0449 (J)		
9/8/2016		1.89	
11/15/2016			
11/16/2016			
11/17/2016	0.0067 (J)	2.17	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	<0.015	2.09	
2/23/2017			<0.015
4/17/2017			<0.015
5/15/2017			<0.015
6/12/2017			
6/13/2017			
6/14/2017		2.45	
6/15/2017	<0.015		<0.015
9/26/2017			
9/27/2017		2.4	
9/28/2017	<0.015		<0.015
2/13/2018			
2/15/2018	<0.015	2.55	<0.015
6/26/2018			
6/27/2018	0.0088 (J)	2.2	
6/28/2018			0.0067 (J)
12/18/2018		2.2	
12/19/2018	0.0045 (J)		<0.015
12/20/2018			
3/19/2019	<0.015		
3/20/2019		2.3	0.004 (J)
10/15/2019			
10/16/2019		2.3	0.0055 (J)
10/17/2019	<0.015		
12/3/2019	0.0063 (J)		
3/3/2020	0.0075 (J)		
3/5/2020		2.1	0.0076 (J)
9/15/2020			
9/16/2020	0.0066 (J)	2.2	0.0062 (J)
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		2.1	<0.015
3/4/2021	<0.015		
9/21/2021			
9/22/2021	0.02 (J)	2.2	
9/23/2021			<0.015
2/1/2022	0.013 (J)	2.2	
2/2/2022			0.032 (J)
8/23/2022			<0.015
8/24/2022	0.0273	2.45	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-34S	BRGWC-37S
1/24/2023	0.0326	2.21	
1/25/2023			<0.015
8/22/2023		1.9	0.00802 (J)
8/23/2023	0.0601		
1/30/2024	0.0758		
1/31/2024		2.14	<0.015
8/27/2024			<0.015
8/28/2024	0.0721	1.88	
2/18/2025			
2/26/2025	0.0756	2.19	0.00753 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
8/31/2016	12.6	19.6	13.5	4.09					
9/1/2016					3.3				
9/7/2016						53.4	50.6	26.3	45.9
9/8/2016									
11/15/2016		21.7			3.44				
11/16/2016	12.1		14.9	4.25					
11/17/2016						41.3		31.8	
11/18/2016							53.9		
11/21/2016									46.4
2/20/2017		21.1	13.9		3.52				
2/21/2017	11.4			4.02					
2/22/2017						53.1		33.5	
2/23/2017							51		43.5
4/17/2017									
5/15/2017									
6/12/2017	9.34	21.5	13.7		3.11				
6/13/2017				3.84					
6/14/2017						47.1			
6/15/2017							53.8	29	45.3
9/26/2017	14.3	24	14.4	3.31	3.15				
9/27/2017						49.5			
9/28/2017							51.8	34.1	45.1
2/13/2018	<25	<25	<25	3.94	3.65				
2/15/2018						50.9	50.1	33.8	45.3
6/26/2018	16 (J)	23.5 (J)	13.5 (J)	3.6	3.3				
6/27/2018						55.1		34.1	
6/28/2018							51		45.9
12/18/2018	14.5 (J)	19.8 (J)	16.4 (J)	3.8	3.5	52.7			
12/19/2018							57.1	33.1	
12/20/2018									41.8
3/19/2019	14.3 (J)	21.4 (J)	12.3 (J)	3.9	3.6		49.5	31.6	
3/20/2019						51.4			38.2
10/15/2019	15.1	20	14.4	3.7	3.5				
10/16/2019						46.5			38.4
12/3/2019							47.8	37.7	
3/3/2020	20	23.2	14.9	4	5			29.7	
3/5/2020						48.1	51.7		39.8
9/15/2020	14.1	16.8	12.7	3.9	3.7				
9/16/2020						37.9	45.9	37.9	
9/17/2020									33.1
3/1/2021	15.4				4.2				
3/2/2021		16.8	13.2	4					
3/3/2021						37.5	53		
3/4/2021								41.2	41
9/21/2021		19.1	14.1						
9/22/2021	15.9			4.3	4.1	28.9	53.7	36.4	
9/23/2021									36.8
2/1/2022	14.4	19.1	14.5	4.4	4.2	34.3	49.7	41.5	37.8
2/2/2022									
8/23/2022	13.9	18.2	14.3	4.65	3.97	119			37.1
8/24/2022							48.1	43.6	
1/24/2023	14.2	19.4	15.8	4.86	3.9	116		41.3	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
1/25/2023							48.2		32.8
8/22/2023	12.6	14.9	14.3	5.02	3.79	135			
8/23/2023							43.4	47.9	28.7
1/30/2024	14.1	18.2	16	5.25	4.27			53.3	
1/31/2024						281	44.4		23.7
8/27/2024	12.4	17.2	15.9	5.45	4.19				26.7
8/28/2024						369	41	46.4	
2/18/2025	13.8	16.5	16.9	5.76	4.11				
2/26/2025						443	42.5	49.9	20.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	54.1		
9/8/2016		97.3	
11/15/2016			
11/16/2016			
11/17/2016	62.6	97.6	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	64.6	106	
2/23/2017			3.26
4/17/2017			3.23
5/15/2017			2.97
6/12/2017			
6/13/2017			
6/14/2017		98	
6/15/2017	61.3		3.15
9/26/2017			
9/27/2017		95.8	
9/28/2017	60.8		3.26
2/13/2018			
2/15/2018	56.6	100	3.39
6/26/2018			
6/27/2018	66.2	90.1	
6/28/2018			3.1
12/18/2018		85.1	
12/19/2018	64.4		3.6
12/20/2018			
3/19/2019			
3/20/2019	61.8	82	3.3
10/15/2019			
10/16/2019	61.2	78.2	3.4
12/3/2019			
3/3/2020			
3/5/2020	69.9	89.6	3.7
9/15/2020			
9/16/2020	61.8	77.7	3.2
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		88.6	3.6
3/4/2021	71.8		
9/21/2021			
9/22/2021		76.9	
9/23/2021	70.5		3.7
2/1/2022	73.8	81.7	
2/2/2022			3.7
8/23/2022			3.7
8/24/2022	68.5	75	
1/24/2023	67.5	80	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-34S	BRGWC-37S
1/25/2023			3.65
8/22/2023		83.4	3.47
8/23/2023	71.4		
1/30/2024	68.9		
1/31/2024		99.2	3.54
8/27/2024			3.64
8/28/2024	59.5	95.9	
2/18/2025			
2/26/2025	67.8	127	3.77

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
8/31/2016	2.3	3.6	4.4	2					
9/1/2016					2.5				
9/7/2016						5.3	3.1	3.7	5.8
9/8/2016									
11/15/2016		4			2.3				
11/16/2016	2		4.4	1.8					
11/17/2016						5.3		4	
11/18/2016							3.4		
11/21/2016									5.1
2/20/2017		3.9	4.8		2.4				
2/21/2017	2			1.8					
2/22/2017						0.12 (J)		3.6	
2/23/2017							3.2		4.1
4/17/2017									
5/15/2017									
6/12/2017	2.1	3.8	4.2		2.2				
6/13/2017				1.7					
6/14/2017						4.5			
6/15/2017							4	3.7	4.8
9/26/2017	2	4.1	4.4	1.8	2.3				
9/27/2017						5.4			
9/28/2017							4.6	4.1	6.7
2/13/2018	2.1	4.1	4.7	1.7	2.3				
2/15/2018						6.3	5.4	5.3	8
6/26/2018	2.4	4.1	4.5	2.2	2.6				
6/27/2018						4.5		4.2	
6/28/2018							9		5.5
12/18/2018	1.8	3.8	4.5	1.9	2.3	6.1			
12/19/2018							6.2	4.9	
12/20/2018									8
3/19/2019	2.5	4.2	4.5	2	2.6		7.1	5	
3/20/2019						6.2			6.6
10/15/2019	2.2	3.7	4.2	1.9	2.4				
10/16/2019						5.4			6.4
12/3/2019							7.7	4.8	
3/3/2020	1.9	3.6	3.9	1.9	2.9			3.8	
3/5/2020						4.8	7.6		5.8
9/15/2020	1.9	3.7	3.7	1.7	2.3				
9/16/2020						4.1	7.9	4.2	
9/17/2020									6.1
3/1/2021	1.8				2.1				
3/2/2021		3.7	3.8	1.7					
3/3/2021						3.9	8.1		
3/4/2021								4.6	5.6
9/21/2021		3.2	3.2						
9/22/2021	1.7			1.5	2.1	2.7	7.1	4.6	
9/23/2021									6
2/1/2022	1.8	3.4	3.5	1.6	2.1	13.1	7.6	4.9	5.8
2/2/2022									
8/23/2022	2.02	3.59	3.64	2.18	2.39	30.3			6.42
8/24/2022							7.96	5	
1/24/2023	2.09	3.56	3.93	2.16	2.3	29		6.31	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
1/25/2023							7.93		6.53
8/22/2023	1.9	3.37	3.53	2.14	2.34	32.7			
8/23/2023							8.26	5.18	6.44
1/30/2024	2.35	3.52	3.98	2.14	3.23			5.69	
1/31/2024						65.3	8.32		7
8/27/2024	2.16	3.49	3.88	2.17	2.28				6.53
8/28/2024						71.7	7.81	4.95	
2/18/2025	2.09	3.34	4.05	2.09	2.25				
2/26/2025						96.1	8.26	5.96	6.76

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 12:38 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	5.8		
9/8/2016		7.2	
11/15/2016			
11/16/2016			
11/17/2016	6	7.6	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	5.6	7.1	
2/23/2017			2.1
4/17/2017			1.8
5/15/2017			1.8
6/12/2017			
6/13/2017			
6/14/2017		7.3	
6/15/2017	5.8		1.9
9/26/2017			
9/27/2017		7.6	
9/28/2017	6.2		1.9
2/13/2018			
2/15/2018	6.2	7.2	2.3
6/26/2018			
6/27/2018	5.9	7.1	
6/28/2018			2.1
12/18/2018		7.1	
12/19/2018	6.2		1.9
12/20/2018			
3/19/2019			
3/20/2019	6.6	6.9	2.3
10/15/2019			
10/16/2019	6.6	7.3	2.3
12/3/2019			
3/3/2020			
3/5/2020	5.8	6.4	1.8
9/15/2020			
9/16/2020	6	6.6	1.8
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		6.4	1.9
3/4/2021	5.8		
9/21/2021			
9/22/2021		5.6	
9/23/2021	6.1		1.9
2/1/2022	6	5.9	
2/2/2022			1.8
8/23/2022			1.97
8/24/2022	6.53	6.17	
1/24/2023	6.46	7.5	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-34S	BRGWC-37S
1/25/2023			1.92
8/22/2023		13.2	1.89
8/23/2023	6.21		
1/30/2024	6.51		
1/31/2024		15.7	2
8/27/2024			1.9
8/28/2024	6.21	15.5	
2/18/2025			
2/26/2025	6.55	23	1.97

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-35S	BRGWC-36S	BRGWC-38S
8/31/2016	0.11 (J)	0.05 (J)	0.07 (J)	0.19 (J)					
9/1/2016					0.06 (J)				
9/7/2016						0.22 (J)	0.34	0.18 (J)	0.66
9/8/2016									
11/15/2016				0.08 (J)	0.04 (J)				
11/16/2016	0.05 (J)	0.04 (J)	0.03 (J)						
11/17/2016						0.33	0.24 (J)		
11/18/2016								0.04 (J)	
11/21/2016									0.95
2/20/2017			0.06 (J)	0.08 (J)	0.04 (J)				
2/21/2017	0.14 (J)	0.05 (J)							
2/22/2017						0.11 (J)	0.09 (J)		
2/23/2017								0.07 (J)	0.75
4/17/2017									
5/15/2017									
6/12/2017	0.16 (J)		0.008 (J)	0.07 (J)	0.06 (J)				
6/13/2017		0.04 (J)							
6/14/2017									
6/15/2017						0.05 (J)	0.03 (J)	0.01 (J)	0.77
9/26/2017	0.14 (J)	<0.1	<0.1	0.04 (J)	<0.1				
9/27/2017									
9/28/2017						0.05 (J)	<0.1	<0.1	0.8
2/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1				
2/15/2018						<0.1	<0.1	<0.1	0.82
6/26/2018	0.085 (J)	0.048 (J)	0.045 (J)	0.072 (J)	0.041 (J)				
6/27/2018						0.093 (J)	0.22 (J)		
6/28/2018								0.51	1.5
12/18/2018	0.085 (J)	<0.1	<0.1	<0.1	<0.1				
12/19/2018						0.16 (J)	0.11 (J)	<0.1	
12/20/2018									0.68
3/19/2019	0.066 (J)	0.037 (J)	<0.1	0.06 (J)	0.03 (J)	0.1 (J)		<0.1	
3/20/2019							0.088 (J)		0.95
8/27/2019	<0.1	<0.1	<0.1	<0.1	<0.1				
8/28/2019						0.085 (J)	0.056 (J)	<0.1	
8/29/2019									0.9
10/15/2019	<0.1	<0.1	<0.1	0.045 (J)	<0.1				
10/16/2019							0.08 (J)		0.61
12/3/2019						0.2 (J)		0.15 (J)	
3/3/2020	0.066 (J)	0.05 (J)	<0.1	0.057 (J)	0.09 (J)	0.093 (J)			
3/5/2020							0.067 (J)	<0.1	0.92
8/18/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
8/19/2020						0.1	0.06 (J)	0.051 (J)	0.95
9/15/2020	<0.1	<0.1	<0.1	0.051 (J)	<0.1				
9/16/2020						0.1	0.062 (J)	<0.1	
9/17/2020									0.68
3/1/2021	<0.1				<0.1				
3/2/2021		<0.1	<0.1	<0.1					
3/3/2021								<0.1	
3/4/2021						0.096 (J)	0.076 (J)		0.83
9/21/2021			<0.1	0.056 (J)					
9/22/2021	<0.1	<0.1			<0.1	0.1		0.054 (J)	
9/23/2021							0.073 (J)		0.85

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-2S (bg)	BRGWA-5I (bg)	BRGWA-5S (bg)	BRGWA-6S (bg)	BRGWC-17S	BRGWC-35S	BRGWC-36S	BRGWC-38S
2/1/2022	<0.1	<0.1	<0.1	<0.1	<0.1	0.079 (J)	0.055 (J)	<0.1	0.95
2/2/2022									
8/23/2022	<0.1	<0.1	<0.1	<0.1	<0.1				0.609
8/24/2022						0.274	<0.1	0.194	
1/24/2023	<0.1	<0.1	0.149	0.158	0.12	0.216	0.239		
1/25/2023								0.183	0.708
8/22/2023	0.267	0.229	0.289	0.277	0.0787 (J)				
8/23/2023						0.484	0.347	0.301	0.748
1/30/2024	<0.1	0.184	0.232	0.233	0.0341 (J)	0.34	0.263		
1/31/2024								0.144	0.493
8/27/2024	0.0342 (J)	0.0426 (J)	0.0365 (J)	0.0516 (J)	0.0334 (J)				0.366
8/28/2024						0.218	0.0609 (J)	0.0861 (J)	
2/18/2025	0.0566 (J)	0.0709 (J)	0.0553 (J)	0.0749 (J)	0.0527 (J)				
2/26/2025						0.0663 (J)	0.0472 (J)	0.0348 (J)	0.336

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	0.19 (J)		
9/8/2016		0.17 (J)	
11/15/2016			
11/16/2016			
11/17/2016	0.26 (J)	0.12 (J)	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	0.21 (J)	0.17 (J)	
2/23/2017			0.1 (J)
4/17/2017			0.08 (J)
5/15/2017			0.02 (J)
6/12/2017			
6/13/2017			
6/14/2017	0.18 (J)	0.1 (J)	
6/15/2017			0.03 (J)
9/26/2017			
9/27/2017	0.42	0.4	
9/28/2017			<0.1
2/13/2018			
2/15/2018	0.42	<0.1	<0.1
6/26/2018			
6/27/2018	0.32	0.21 (J)	
6/28/2018			<0.1
12/18/2018	0.28 (J)	0.12 (J)	
12/19/2018			0.094 (J)
12/20/2018			
3/19/2019			
3/20/2019	0.14 (J)	0.074 (J)	0.062 (J)
8/27/2019	0.11 (J)		
8/28/2019		0.057 (J)	<0.1
8/29/2019			
10/15/2019			
10/16/2019	0.17 (J)	0.13 (J)	0.059 (J)
12/3/2019			
3/3/2020			
3/5/2020	0.088 (J)	0.072 (J)	0.05 (J)
8/18/2020			
8/19/2020	0.11	0.074 (J)	0.055 (J)
9/15/2020			
9/16/2020	0.085 (J)	0.077 (J)	<0.1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	0.069 (J)	0.071 (J)	<0.1
3/4/2021			
9/21/2021			
9/22/2021	0.068 (J)	0.1	
9/23/2021			<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-33S	BRGWC-34S	BRGWC-37S
2/1/2022	0.053 (J)	0.06 (J)	
2/2/2022			<0.1
8/23/2022	0.187		0.105
8/24/2022		0.14	
1/24/2023	0.193	0.122	
1/25/2023			0.114
8/22/2023	0.123	0.0816 (J)	0.0445 (J)
8/23/2023			
1/30/2024			
1/31/2024	0.194	0.101	0.109
8/27/2024			0.0777 (J)
8/28/2024	0.204	0.11	
2/18/2025			
2/26/2025	0.143	0.1	0.0523 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
8/31/2016	7.16	6.59	6.53	6.2					
9/1/2016					6.49				
9/7/2016						5.43	5.59	6.1	6.36
9/8/2016									
9/23/2016						5.46			
11/15/2016		6.67			6.59				
11/16/2016	6.96		6.4	6.12					
11/17/2016								6.04	6.28
11/18/2016							5.51		
11/21/2016						4.84			
2/20/2017		6.65	6.44		6.61				
2/21/2017	7.15			6.24					
2/22/2017								6.08	6.4
2/23/2017						4.73	5.65		
4/17/2017									
5/15/2017									
6/12/2017	7.31	6.64	6.4						
6/13/2017				6.19					
6/14/2017									
6/15/2017						4.35	5.55	6.06	6.35
9/26/2017	7.02	6.58	6.31	6.15	6.47				
9/27/2017									
9/28/2017						4.37	5.62	6.03	6.35
2/13/2018	7.44	6.72	6.62	6.18	6.54				
2/15/2018						4.3	5.66	6.02	6.35
6/26/2018	6.93	6.43	6.29	6.05	6.23				
6/27/2018								6.01	6.35
6/28/2018						4.16	5.57		
12/18/2018	6.76	6.7	6.57	5.92	6.71				
12/19/2018							5.76	6.22	6.56
12/20/2018						4.21			
3/19/2019	6.87	6.63	6.45	6.18	6.18		5.72		6.43
3/20/2019						4.34		6.06	
8/27/2019	6.79	6.49	6.37	6.09	6.35				
8/28/2019							5.52	5.95	6.25
8/29/2019						4.01			
10/15/2019	6.57	7.01	6.77	6.06	6.36				
10/16/2019						4.21		6.03	
10/17/2019							5.61		6.3
12/3/2019							5.63		6.36
3/3/2020	6.71	6.49	6.29	6.1	6.59				6.34
3/5/2020						4.01	5.39	6.04	
8/18/2020	6.59	6.41	6.29	6.06	6.33				
8/19/2020						4.12	5.53	5.97	6.24
9/15/2020	6.64	6.25	6.27	6.01	6.43				
9/16/2020							5.58	5.96	6.26
9/17/2020						4.17			
3/1/2021	6.66				6.7				
3/2/2021		6.42	6.47	6.2					
3/3/2021							5.86		
3/4/2021						4.19		6.14	6.45
9/21/2021		6.36	6.32						

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S
9/22/2021	6.78			6.06	6.48		5.53		6.22
9/23/2021						4.05		6.08	
2/1/2022	6.83	6.39	6.38	5.95	6.54	4.06	5.65	6.09	6.39
2/2/2022									
8/23/2022	6.67	6.36	6.24	5.95	6.51	3.97			
8/24/2022							5.59	6.05	6.62
10/12/2022				5.69		4.17		5.64	
1/24/2023	6.7	6.47	6.42	5.26	6.54			6.08	6.37
1/25/2023						4.75	5.64		
8/22/2023	6.95	6.08	6.24	5.96	6.09				
8/23/2023						3.91	5.26	5.9	6.16
10/30/2023	6.22			5.5	6.28				
1/30/2024	6.57	6.38	6.44	6.05	5.75			5.5	6.28
1/31/2024						4.1	5.63		
8/27/2024	6.6	6.65	6.56	6.02	6.8	4.96			
8/28/2024							5.8	5.87	6.49
2/18/2025	6.42	6.42	6.17	5.88	6.38				
2/26/2025						4.23	5.64	5.94	6.26

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-33S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	4.92		
9/8/2016		5.84	
9/23/2016			
11/15/2016			
11/16/2016			
11/17/2016	4.82	5.81	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	4.86	5.85	
2/23/2017			5.57
4/17/2017			5.8
5/15/2017			5.75
6/12/2017			
6/13/2017			
6/14/2017	4.86	5.87	
6/15/2017			5.8
9/26/2017			
9/27/2017	4.78	5.74	
9/28/2017			5.86
2/13/2018			
2/15/2018	4.84	5.93	5.95
6/26/2018			
6/27/2018	4.73	5.68	
6/28/2018			5.78
12/18/2018	4.84	5.97	
12/19/2018			6.07
12/20/2018			
3/19/2019			
3/20/2019	4.77	5.84	5.93
8/27/2019	4.78		
8/28/2019		5.8	5.8
8/29/2019			
10/15/2019			
10/16/2019	4.78	5.85	5.81
10/17/2019			
12/3/2019			
3/3/2020			
3/5/2020	4.82	5.89	5.53
8/18/2020			
8/19/2020	4.78	5.78	5.66
9/15/2020			
9/16/2020	4.78	5.81	5.84
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021	4.83	5.88	5.87
3/4/2021			
9/21/2021			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-33S	BRGWC-34S	BRGWC-37S
9/22/2021	4.81	5.93	
9/23/2021			5.85
2/1/2022	4.82	5.87	
2/2/2022			5.8
8/23/2022	4.67		5.82
8/24/2022		5.75	
10/12/2022	4.72		
1/24/2023	4.79	5.93	
1/25/2023			5.84
8/22/2023	4.58	5.72	5.42
8/23/2023			
10/30/2023			
1/30/2024			
1/31/2024	4.78	5.95	5.76
8/27/2024			5.82
8/28/2024	4.51	6.21	
2/18/2025			
2/26/2025	4.94	5.97	5.73

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
8/31/2016	7.5	0.81 (J)	2.7	0.38 (J)					
9/1/2016					0.6 (J)				
9/7/2016						260	300	97	440
9/8/2016									
11/15/2016		0.87 (J)			0.49 (J)				
11/16/2016	6.6		3.4	0.36 (J)					
11/17/2016						250		120	
11/18/2016							170		
11/21/2016									510
2/20/2017		1	3.9		0.98 (J)				
2/21/2017	6.1			1.5					
2/22/2017						210		120	
2/23/2017							330		470
4/17/2017									
5/15/2017									
6/12/2017	5	0.94 (J)	3.7		0.54 (J)				
6/13/2017				0.67 (J)					
6/14/2017						200			
6/15/2017							310	130	490
9/26/2017	5.4	0.92 (J)	4.1	0.62 (J)	0.53 (J)				
9/27/2017						200			
9/28/2017							290	120	470
2/13/2018	4.7 (J)	<1	6.6	<1	<1				
2/15/2018						197	292	109	432
6/26/2018	6.2	0.91 (J)	3.5	0.69 (J)	0.54 (J)				
6/27/2018						200		118	
6/28/2018							284		453
12/18/2018	5.9	0.68 (J)	4.3	0.72 (J)	0.39 (J)	222			
12/19/2018							319	125	
12/20/2018									463
3/19/2019	6	0.74 (J)	3	0.78 (J)	0.68 (J)		307	126	
3/20/2019						204			405
10/15/2019	5.2	0.68 (J)	3.8	0.47 (J)	0.48 (J)				
10/16/2019						226			432
12/3/2019							256	180	
3/3/2020	7.1	0.71 (J)	2.8	0.93 (J)	2.5			95.4	
3/5/2020						173	262		370
9/15/2020	5.9	<1	1.7	<1	<1				
9/16/2020						154	256	151	
9/17/2020									356
3/1/2021	4.7				0.74 (J)				
3/2/2021		<1	2.2	<1					
3/3/2021						133	252		
3/4/2021								122	325
9/21/2021		<1	2.3						
9/22/2021	5.2			<1	<1	94.6	234	123	
9/23/2021									318
2/1/2022	5.4	<1	2	<1	<1	99.7	195	139	287
2/2/2022									
8/23/2022	5.66	0.521	2.21	0.452	0.479	385			389
8/24/2022							224	157	
1/24/2023	3.58	0.66	3.34	0.465	0.484	375		153	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWA-6S (bg)	BRGWC-33S	BRGWC-36S	BRGWC-17S	BRGWC-38S
1/25/2023							237		291
8/22/2023	6.85	0.54	1.83	0.526	0.467	466			
8/23/2023							223	180	274
1/30/2024	2.65	0.617	2.74	0.423	0.456			189	
1/31/2024						872	222		233
8/27/2024	2.58	0.652	2.67	0.444	0.465				233
8/28/2024						1230	201	188	
2/18/2025	3.07	0.543	3.16	0.341 (J)	0.468				
2/26/2025						1580	212	206	199

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-34S	BRGWC-37S
8/31/2016			
9/1/2016			
9/7/2016	260		
9/8/2016		420	
11/15/2016			
11/16/2016			
11/17/2016	280	460	
11/18/2016			
11/21/2016			
2/20/2017			
2/21/2017			
2/22/2017	270	410	
2/23/2017			0.55 (J)
4/17/2017			0.44 (J)
5/15/2017			0.45 (J)
6/12/2017			
6/13/2017			
6/14/2017		410	
6/15/2017	280		0.46 (J)
9/26/2017			
9/27/2017		360	
9/28/2017	240		0.49 (J)
2/13/2018			
2/15/2018	266	335	1.9 (O)
6/26/2018			
6/27/2018	278	296	
6/28/2018			0.24 (J)
12/18/2018		345	
12/19/2018	287		0.4 (J)
12/20/2018			
3/19/2019			
3/20/2019	268	329	0.39 (J)
10/15/2019			
10/16/2019	277	325	0.29 (J)
12/3/2019			
3/3/2020			
3/5/2020	269	287	<1
9/15/2020			
9/16/2020	270	283	<1
9/17/2020			
3/1/2021			
3/2/2021			
3/3/2021		277	<1
3/4/2021	251		
9/21/2021			
9/22/2021		232	
9/23/2021	258		<1
2/1/2022	256	243	
2/2/2022			<1
8/23/2022			0.307 (J)
8/24/2022	279	268	
1/24/2023	334	267	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-35S	BRGWC-34S	BRGWC-37S
1/25/2023			0.325 (J)
8/22/2023		299	0.355 (J)
8/23/2023	269		
1/30/2024	278		
1/31/2024		289	0.258 (J)
8/27/2024			0.279 (J)
8/28/2024	251	308	
2/18/2025			
2/26/2025	266	400	0.348 (J)

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
8/31/2016	151	154	138	88					
9/1/2016									
9/7/2016					750	528	486	331	382
9/8/2016									
11/15/2016		123							
11/16/2016	69		77	41					
11/17/2016							453	308	382
11/18/2016						524			
11/21/2016					795				
2/20/2017		158	170						
2/21/2017	68			<10					
2/22/2017							541	341	387
2/23/2017					733	517			
4/17/2017									
5/15/2017									
6/12/2017	161	142	132						
6/13/2017				53					
6/14/2017									316
6/15/2017					812	566	548	333	
9/26/2017	167	138	108	45					
9/27/2017									303
9/28/2017					690	475	487	310	
2/13/2018	165	150	141	63					
2/15/2018					722	513	500	292	332
6/26/2018	188	154	133	71					
6/27/2018							347	353	538
6/28/2018					704	499			
12/18/2018	145	147	138	78					358
12/19/2018						521	489	317	
12/20/2018					642				
3/19/2019	154	146	130	68		498		303	
3/20/2019					615		501		338
10/15/2019	140	144	175	66					
10/16/2019					630		481		281
12/3/2019						498		378	
3/3/2020	155	130	<10	41				263	
3/5/2020					608	457	535		292
9/15/2020	116	116	100	69					
9/16/2020						463	474	316	88
9/17/2020					587				
3/1/2021	98								
3/2/2021		96	80	43					
3/3/2021						442			212
3/4/2021					540		480	316	
9/21/2021		104	108						
9/22/2021	129			66		457		323	190
9/23/2021					528		511		
2/1/2022	126	124	129	72	560	441	521	354	209
2/2/2022									
8/23/2022	117	101	107	45	568				614
8/24/2022						418	507	370	
1/24/2023	93	104	124	63			507	344	615

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWA-2I (bg)	BRGWA-5S (bg)	BRGWA-5I (bg)	BRGWA-2S (bg)	BRGWC-38S	BRGWC-36S	BRGWC-35S	BRGWC-17S	BRGWC-33S
1/25/2023					484	418			
8/22/2023	81	73	80	36					778
8/23/2023					459	398	485	391	
1/30/2024	98	113	118	54			502	413	
1/31/2024					393	435			1420
8/27/2024	82	101	107	51	370				
8/28/2024						389	479	421	1880
2/18/2025	84	92	106	44					
2/26/2025					329	375	490	400	2440

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
8/31/2016			
9/1/2016		299 (O)	
9/7/2016			
9/8/2016	663		
11/15/2016		41	
11/16/2016			
11/17/2016	651		
11/18/2016			
11/21/2016			
2/20/2017		133	
2/21/2017			
2/22/2017	706		
2/23/2017			45
4/17/2017			53
5/15/2017			48
6/12/2017		61	
6/13/2017			
6/14/2017	643		
6/15/2017			63
9/26/2017		29	
9/27/2017	579		
9/28/2017			39
2/13/2018		61	
2/15/2018	612		54
6/26/2018		71	
6/27/2018	359		
6/28/2018			59
12/18/2018	535	70	
12/19/2018			68
12/20/2018			
3/19/2019		72	
3/20/2019	517		68
10/15/2019		63	
10/16/2019	473		49
12/3/2019			
3/3/2020		54	
3/5/2020	489		39
9/15/2020		79	
9/16/2020	392		31
9/17/2020			
3/1/2021		39	
3/2/2021			
3/3/2021	422		33
3/4/2021			
9/21/2021			
9/22/2021	406	62	
9/23/2021			49
2/1/2022	449	61	
2/2/2022			46
8/23/2022		52	40
8/24/2022	452		
1/24/2023	433	64	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 12:39 PM View: Appendix III - Interwell PLs

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-34S	BRGWA-6S (bg)	BRGWC-37S
1/25/2023			28
8/22/2023	495	30	42
8/23/2023			
1/30/2024		45	
1/31/2024	494		37
8/27/2024		57	40
8/28/2024	562		
2/18/2025		46	
2/26/2025	609		23

FIGURE E.

Appendix III - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWC-35S	0.1468	176	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-36S	0.02686	120	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-38S	-0.06011	-110	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-2S (bg)	0.2165	120	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-5S (bg)	-0.5678	-91	-87	Yes	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWA-6S (bg)	0.1143	117	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-17S	2.332	151	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-36S	-1.16	-109	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5I (bg)	-0.1082	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-5S (bg)	-0.06833	-118	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-17S	0.2159	123	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-33S	4.264	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-36S	0.5637	141	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2I (bg)	-0.07589	-153	-105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-2S (bg)	-0.03954	-167	-111	Yes	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWA-5S (bg)	-0.04151	-111	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-38S	-0.06527	-119	-111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-2I (bg)	-0.3354	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-17S	9.474	130	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-34S	-17.7	-107	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-36S	-11.94	-127	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWC-38S	-34.67	-173	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5S (bg)	-7.447	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-17S	10.12	97	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-36S	-18.02	-175	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-38S	-48.66	-186	-87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BRGWA-2I (bg)	0.0002989	56	87	No	21	38.1	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-2S (bg)	0	-7	-87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5I (bg)	0	-25	-87	No	21	71.43	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-5S (bg)	0	-34	-87	No	21	52.38	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWA-6S (bg)	0	-2	-87	No	21	76.19	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-17S	0.003092	46	92	No	22	31.82	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-33S	0.003981	14	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	BRGWC-34S	-0.01013	-29	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	**BRGWC-35S**	**0.1468**	**176**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-36S**	**0.02686**	**120**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**BRGWC-38S**	**-0.06011**	**-110**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-2I (bg)	0.04047	11	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-2S (bg)**	**0.2165**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWA-5I (bg)	0.2594	72	87	No	21	4.762	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWA-5S (bg)**	**-0.5678**	**-91**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWA-6S (bg)**	**0.1143**	**117**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**BRGWC-17S**	**2.332**	**151**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	BRGWC-33S	10.81	50	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-34S	-2.014	-52	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BRGWC-35S	1.169	75	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**BRGWC-36S**	**-1.16**	**-109**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-2I (bg)	-0.001602	-15	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWA-2S (bg)	0.03055	36	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWA-5I (bg)**	**-0.1082**	**-93**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWA-5S (bg)**	**-0.06833**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWA-6S (bg)	-0.002974	-26	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-17S**	**0.2159**	**123**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**BRGWC-33S**	**4.264**	**99**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-34S	0	5	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BRGWC-35S	0.05977	84	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**BRGWC-36S**	**0.5637**	**141**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	BRGWC-38S	0.1582	67	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2I (bg)	0	-33	-98	No	23	47.83	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-2S (bg)	0.001185	77	98	No	23	52.17	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5I (bg)	0.001548	81	98	No	23	56.52	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-5S (bg)	0.001355	29	98	No	23	30.43	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWA-6S (bg)	0	22	98	No	23	47.83	n/a	n/a	0.01	NP
Fluoride (mg/L)	BRGWC-38S	-0.03813	-68	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-2I (bg)**	**-0.07589**	**-153**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**BRGWA-2S (bg)**	**-0.03954**	**-167**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-5I (bg)	-0.01803	-61	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWA-5S (bg)**	**-0.04151**	**-111**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	BRGWA-6S (bg)	-0.01485	-31	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-33S	-0.01259	-90	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-36S	0.004819	27	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	BRGWC-37S	-0.003573	-13	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**BRGWC-38S**	**-0.06527**	**-119**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWA-2I (bg)**	**-0.3354**	**-88**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWA-2S (bg)	-0.01804	-28	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5I (bg)	-0.1653	-72	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-5S (bg)	-0.03376	-72	-87	No	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	BRGWA-6S (bg)	-0.01017	-49	-87	No	21	19.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-17S**	**9.474**	**130**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-33S	20.58	37	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-34S**	**-17.7**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	BRGWC-35S	-0.3331	-18	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**BRGWC-36S**	**-11.94**	**-127**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**BRGWC-38S**	**-34.67**	**-173**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWA-2I (bg)	-9.626	-85	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-2S (bg)	-1.234	-22	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWA-5I (bg)	-3.51	-64	-87	No	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWA-5S (bg)**	**-7.447**	**-133**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWA-6S (bg)	-2.111	-39	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-17S**	**10.12**	**97**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	BRGWC-33S	52.89	43	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-34S	-22.68	-66	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	BRGWC-35S	0.08072	1	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**BRGWC-36S**	**-18.02**	**-175**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Tests - All Results

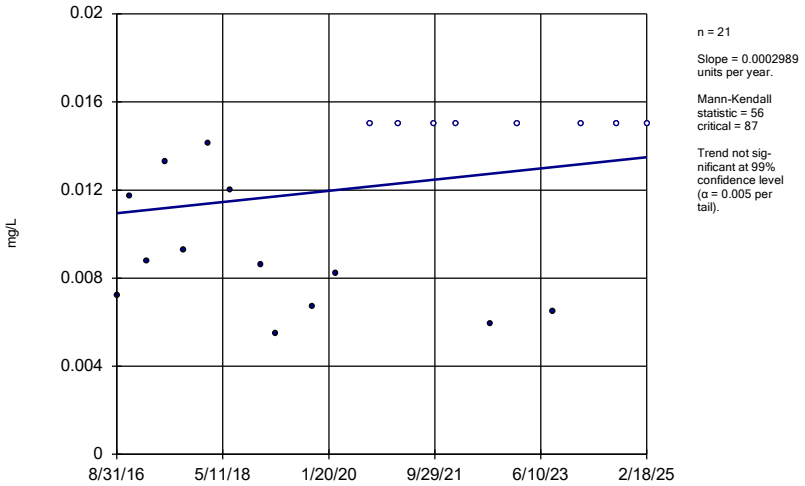
Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	**BRGWC-38S**	**-48.66**	**-186**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = 0.0002989 units per year.

Mann-Kendall statistic = 56
critical = 87

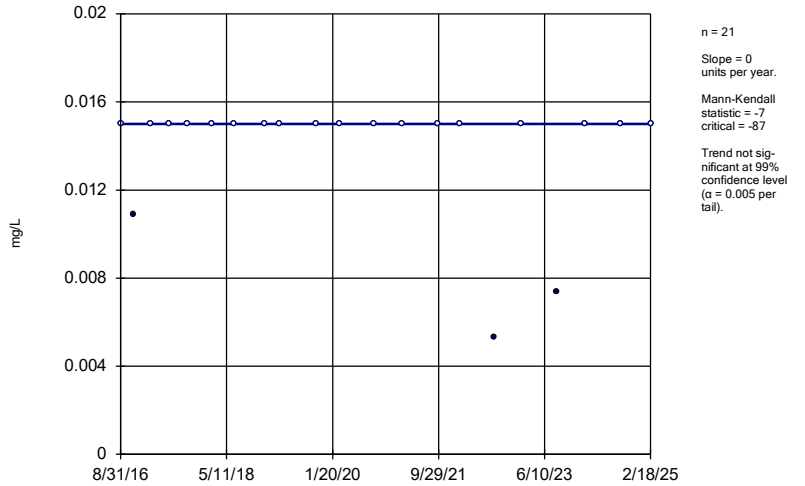
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -87

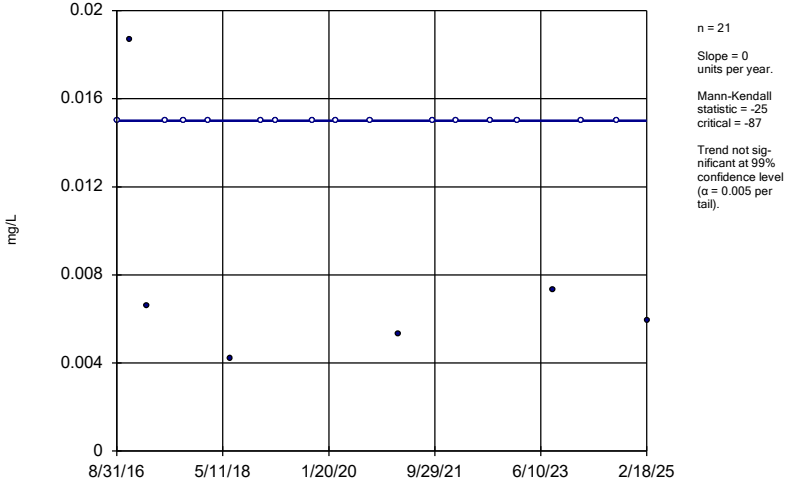
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -87

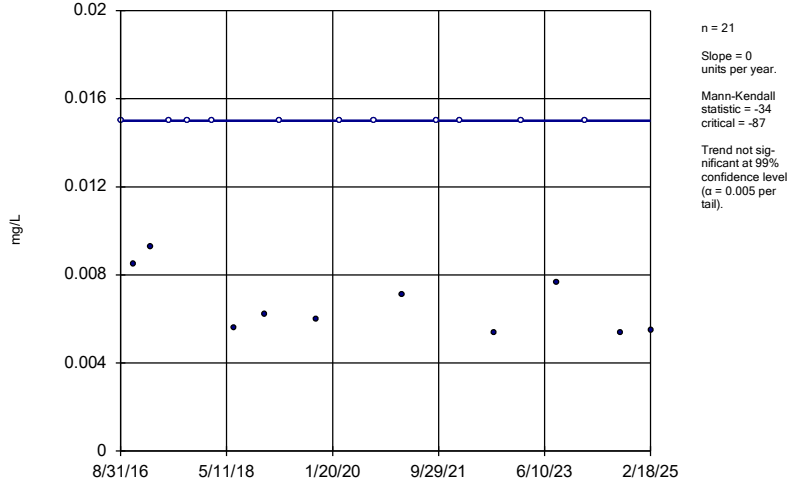
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -34
critical = -87

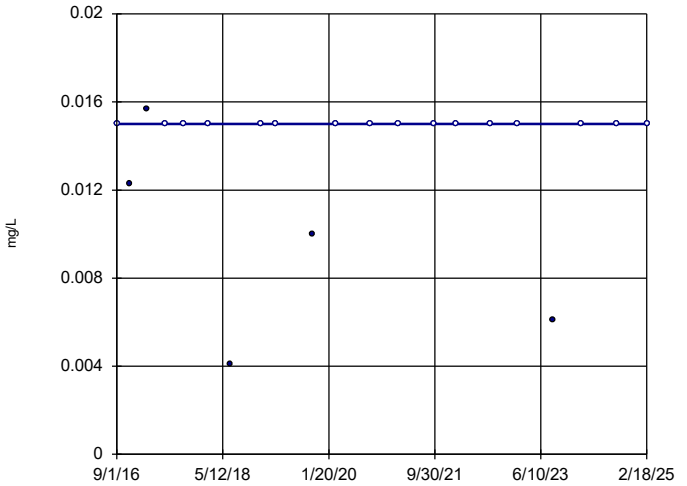
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -87

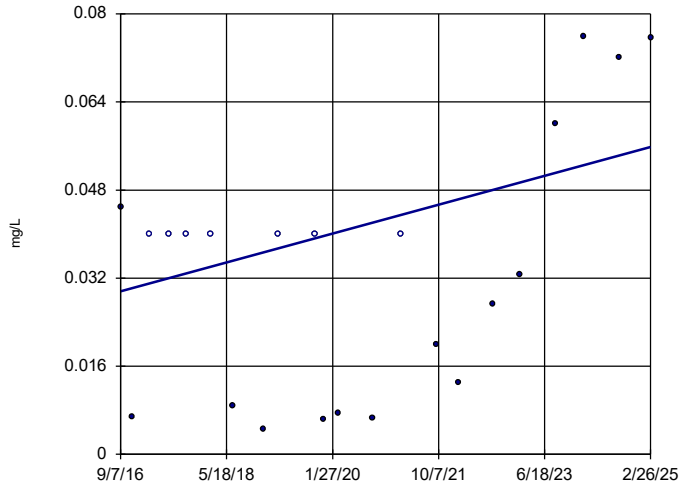
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWC-17S



n = 22

Slope = 0.003092 units per year.

Mann-Kendall statistic = 46
critical = 92

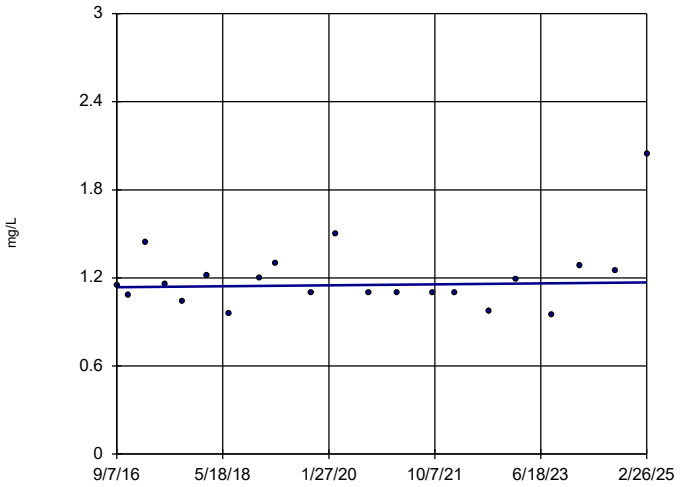
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 21

Slope = 0.003981 units per year.

Mann-Kendall statistic = 14
critical = 87

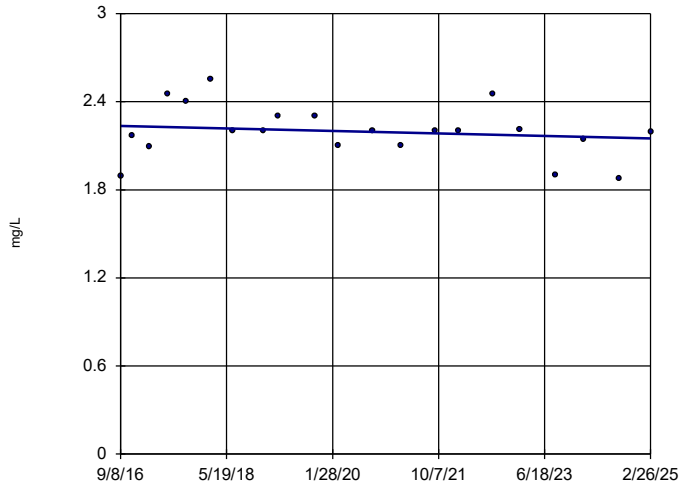
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 21

Slope = -0.01013 units per year.

Mann-Kendall statistic = -29
critical = -87

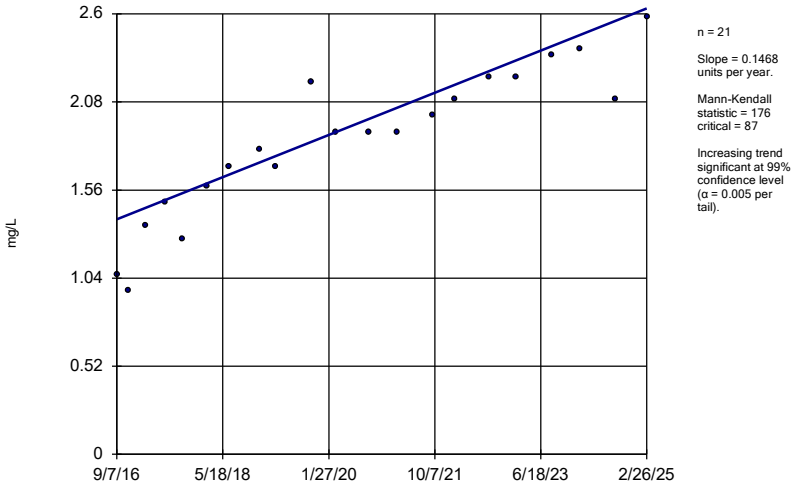
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 21

Slope = 0.1468 units per year.

Mann-Kendall statistic = 176
critical = 87

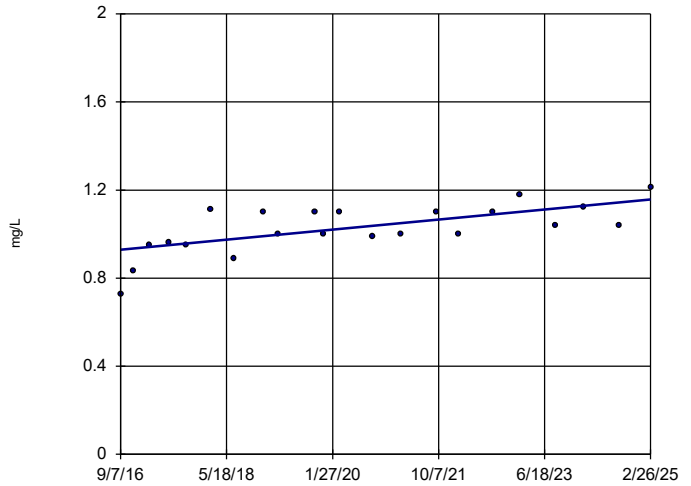
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 22

Slope = 0.02686 units per year.

Mann-Kendall statistic = 120
critical = 92

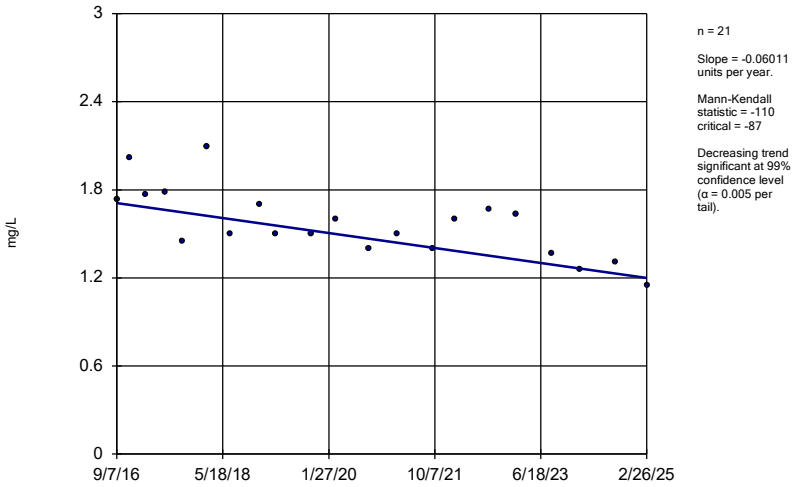
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = -0.06011 units per year.

Mann-Kendall statistic = -110
critical = -87

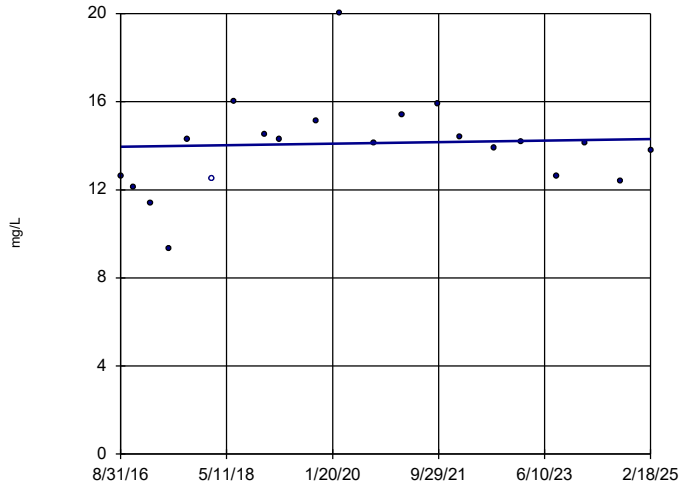
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = 0.04047 units per year.

Mann-Kendall statistic = 11
critical = 87

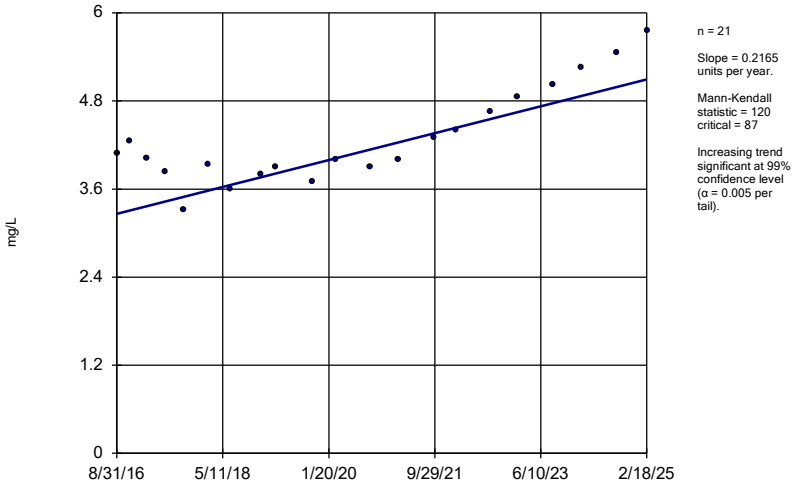
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0.2165 units per year.

Mann-Kendall statistic = 120 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests

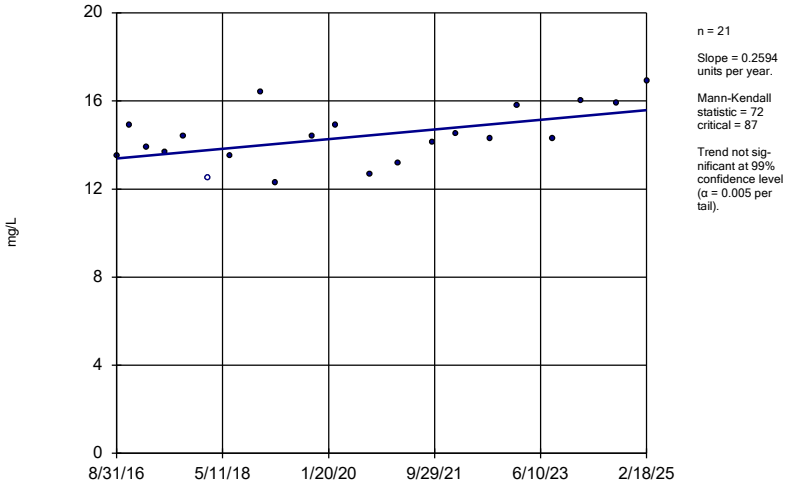
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = 0.2594 units per year.

Mann-Kendall statistic = 72 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests

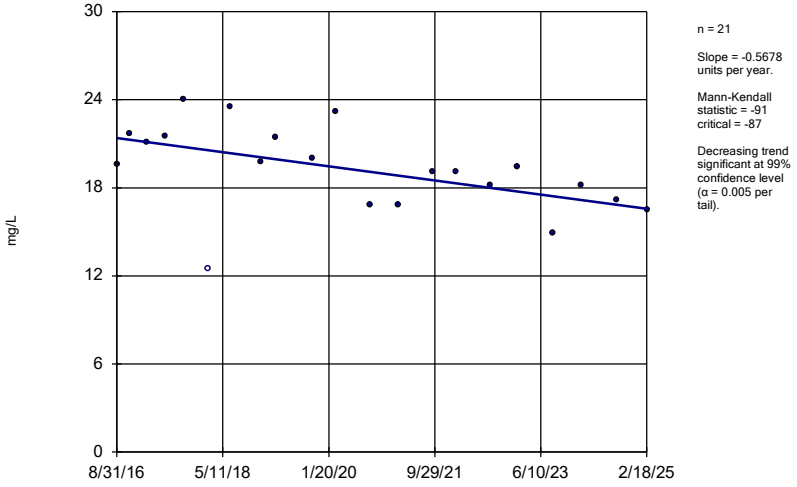
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.5678 units per year.

Mann-Kendall statistic = -91 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

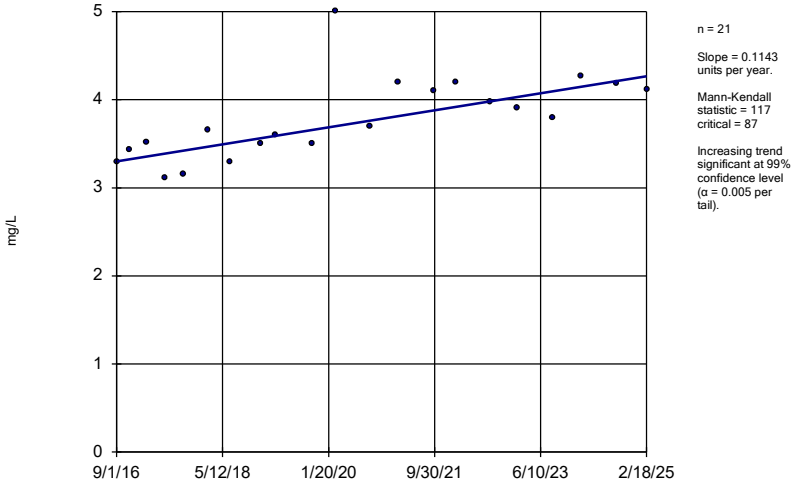
Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = 0.1143 units per year.

Mann-Kendall statistic = 117 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

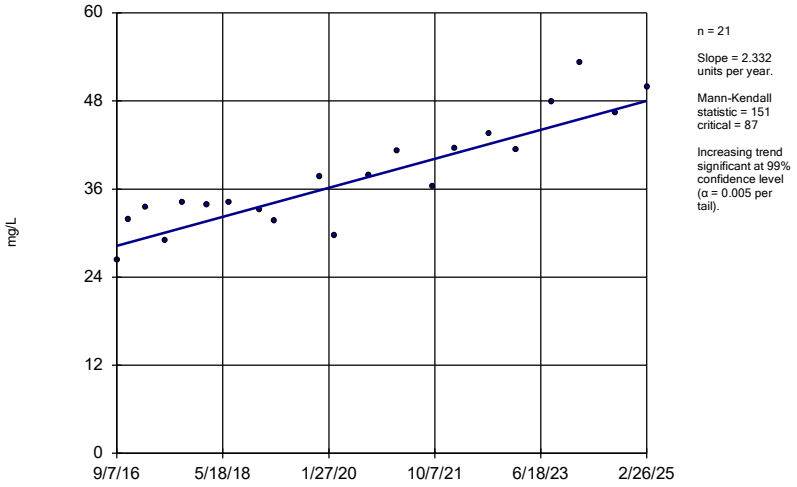
Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 21

Slope = 2.332 units per year.

Mann-Kendall statistic = 151
critical = 87

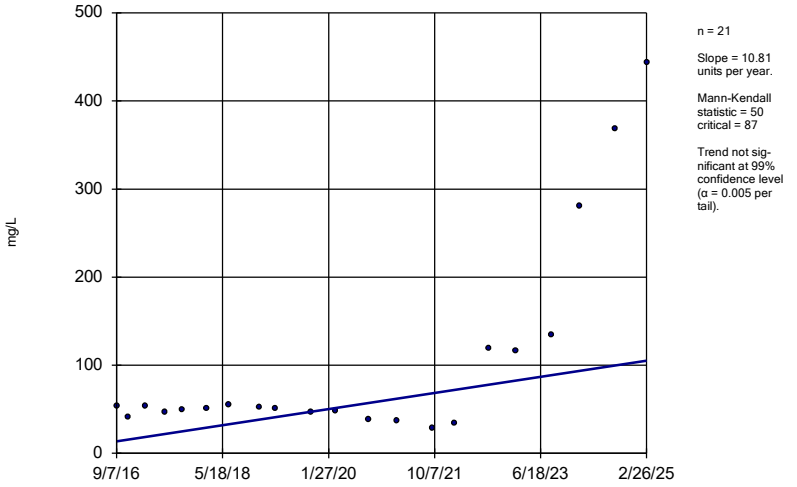
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 21

Slope = 10.81 units per year.

Mann-Kendall statistic = 50
critical = 87

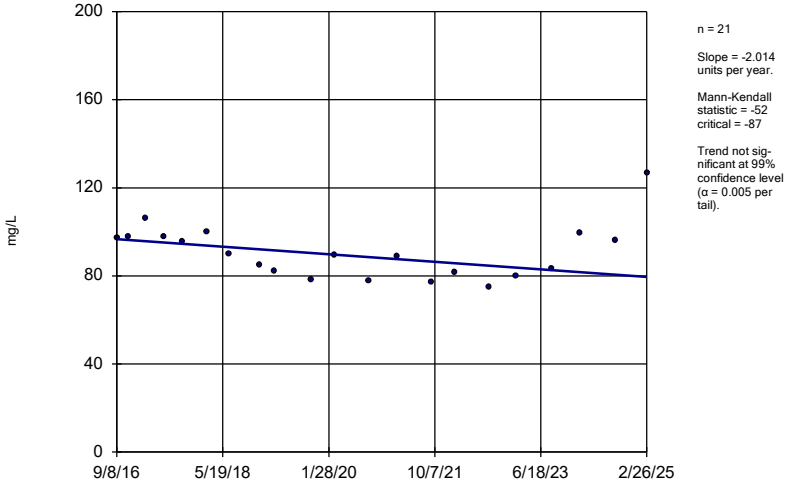
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 21

Slope = -2.014 units per year.

Mann-Kendall statistic = -52
critical = -87

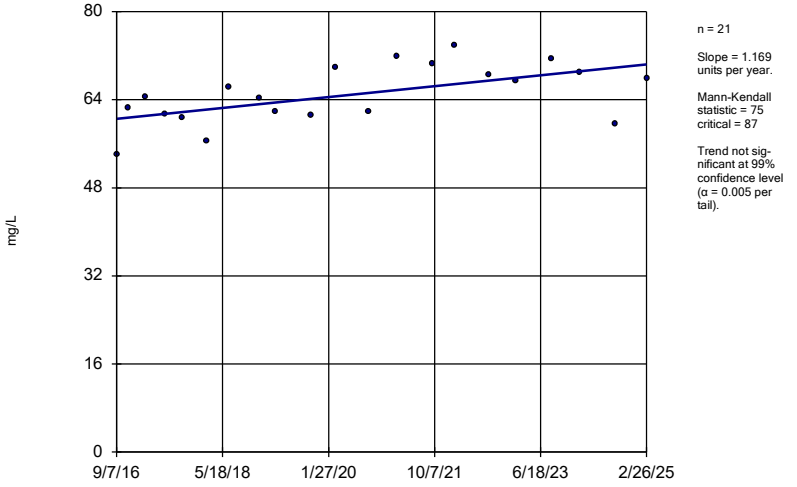
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 21

Slope = 1.169 units per year.

Mann-Kendall statistic = 75
critical = 87

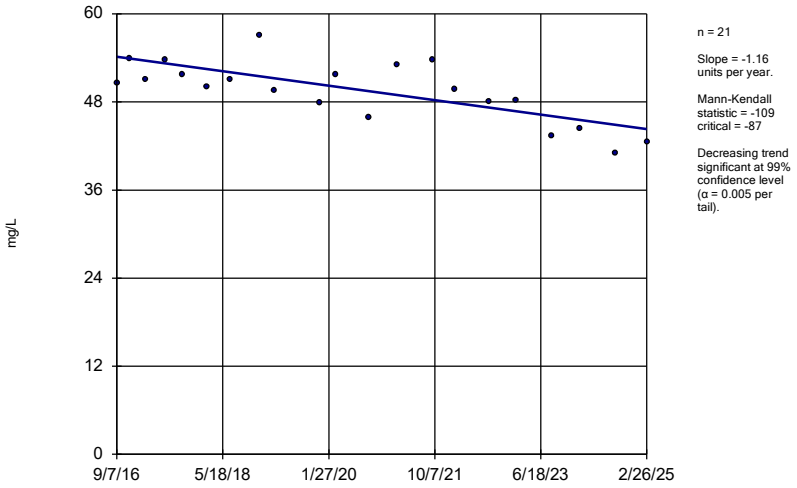
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 21

Slope = -1.16 units per year.

Mann-Kendall statistic = -109
critical = -87

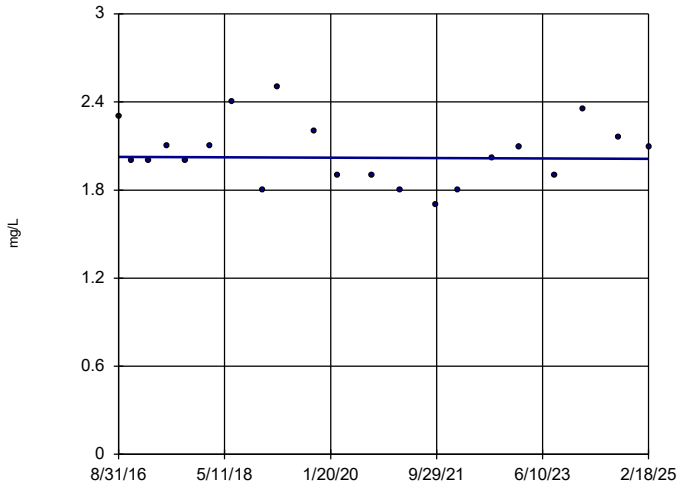
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -0.001602 units per year.

Mann-Kendall statistic = -15
critical = -87

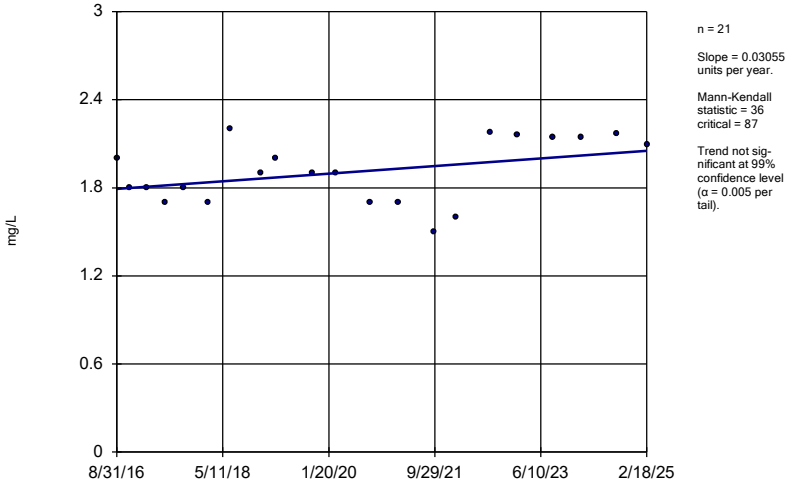
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = 0.03055 units per year.

Mann-Kendall statistic = 36
critical = 87

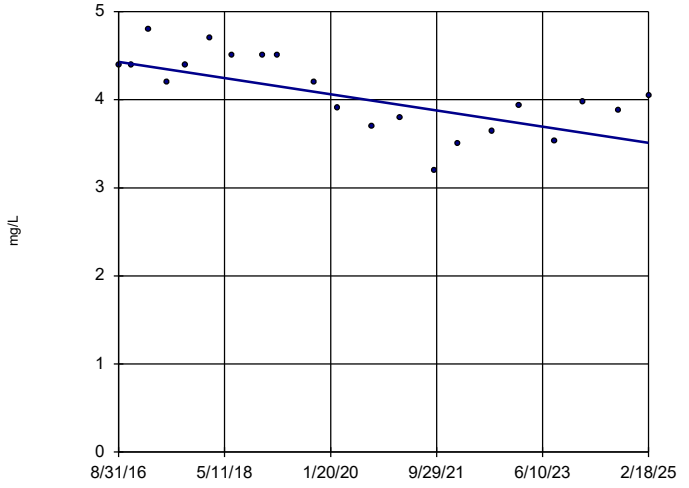
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.1082 units per year.

Mann-Kendall statistic = -93
critical = -87

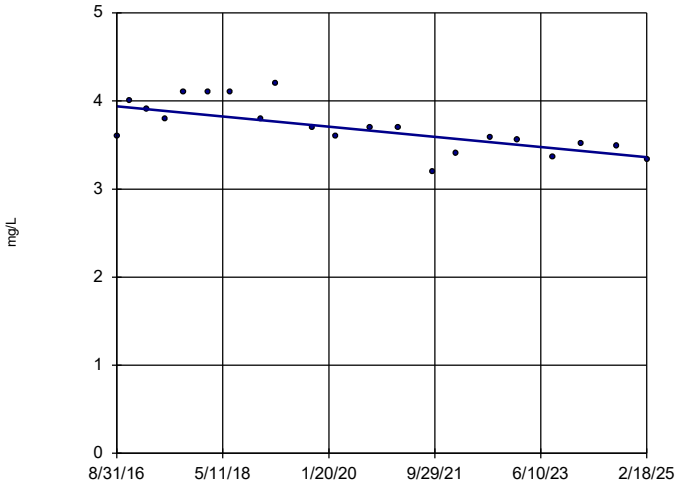
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.06833 units per year.

Mann-Kendall statistic = -118
critical = -87

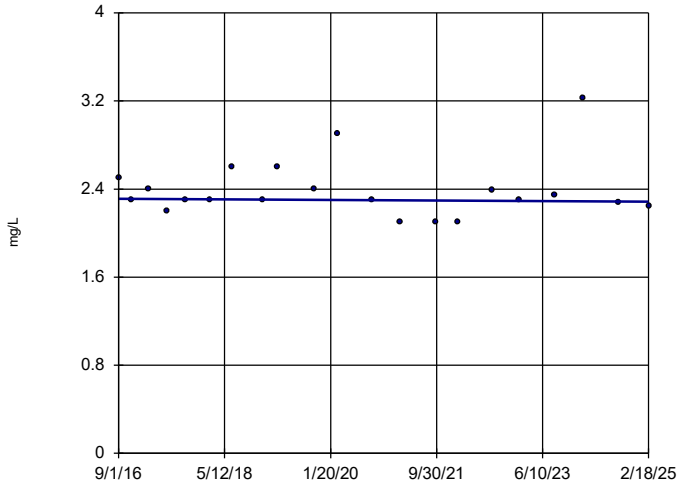
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = -0.002974 units per year.

Mann-Kendall statistic = -26
critical = -87

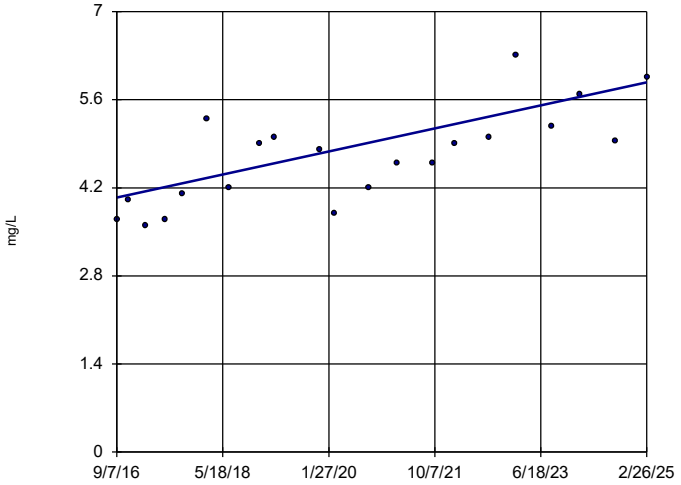
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 21

Slope = 0.2159 units per year.

Mann-Kendall statistic = 123
critical = 87

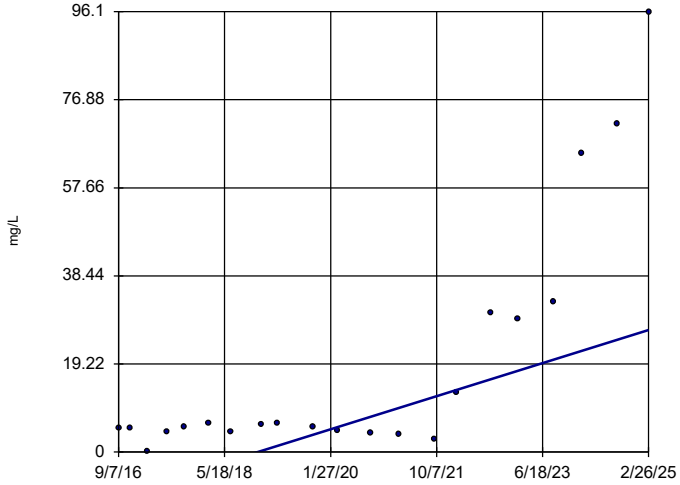
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 21

Slope = 4.264 units per year.

Mann-Kendall statistic = 99
critical = 87

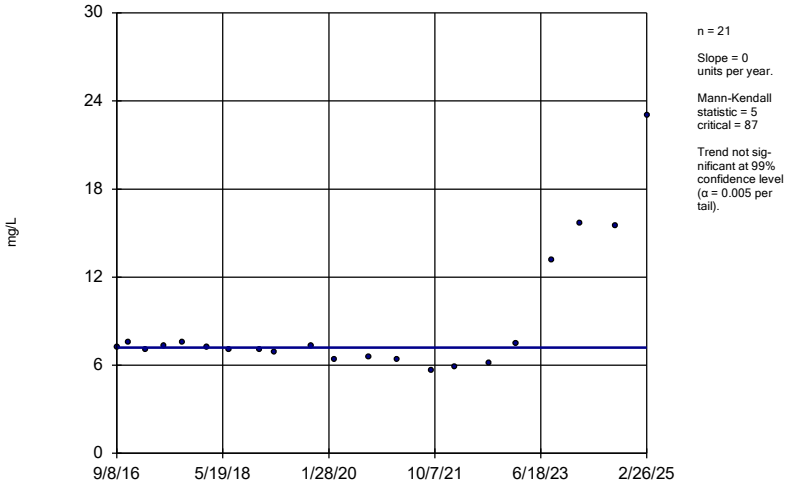
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 87

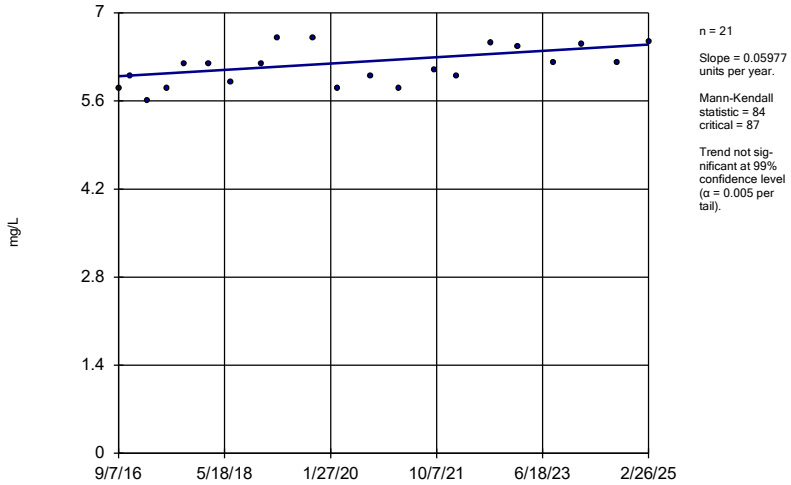
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 21

Slope = 0.05977 units per year.

Mann-Kendall statistic = 84
critical = 87

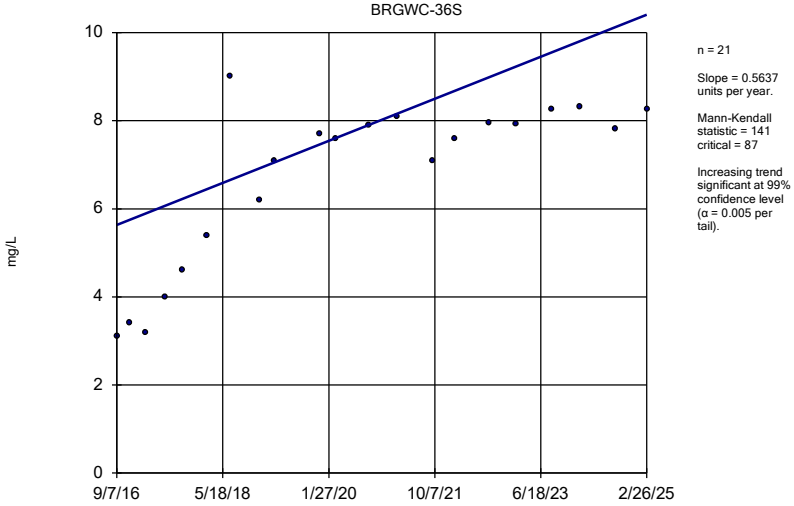
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:49 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 21

Slope = 0.5637 units per year.

Mann-Kendall statistic = 141
critical = 87

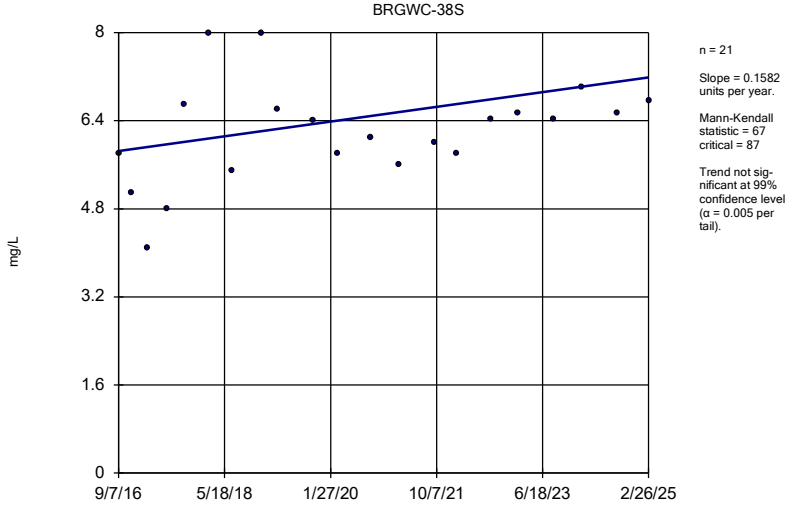
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = 0.1582 units per year.

Mann-Kendall statistic = 67
critical = 87

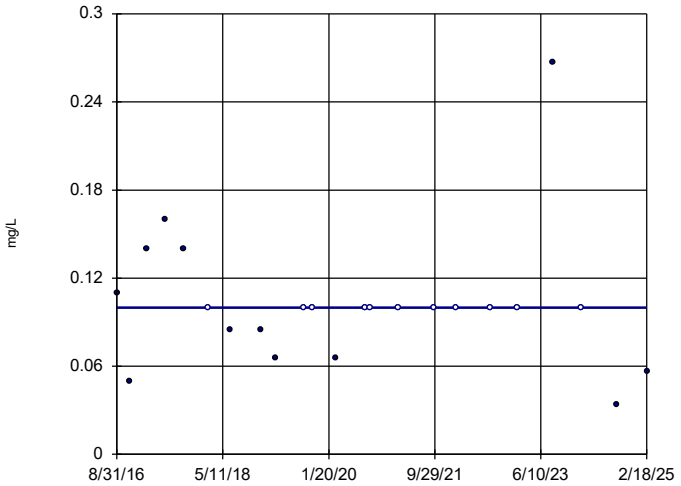
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -33 critical = -98

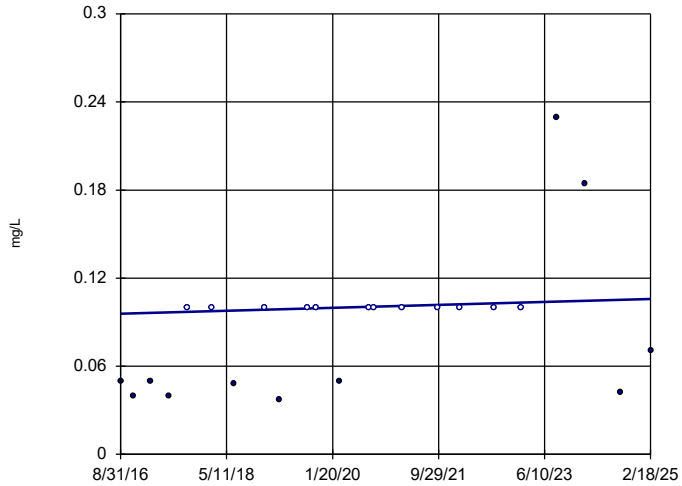
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 23

Slope = 0.001185 units per year.

Mann-Kendall statistic = 77 critical = 98

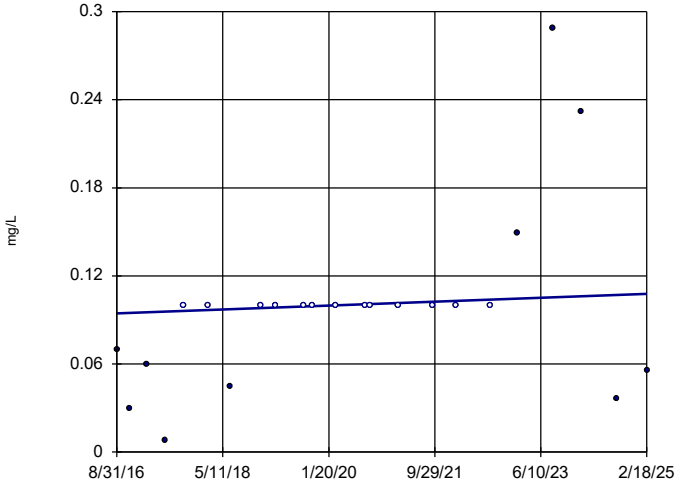
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 23

Slope = 0.001548 units per year.

Mann-Kendall statistic = 81 critical = 98

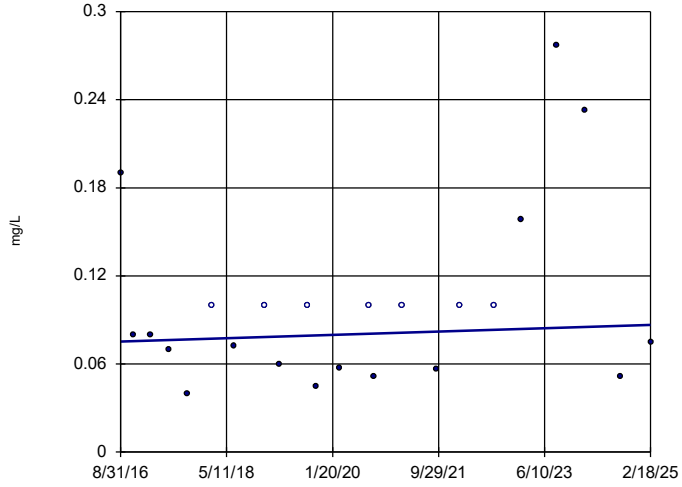
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 23

Slope = 0.001355 units per year.

Mann-Kendall statistic = 29 critical = 98

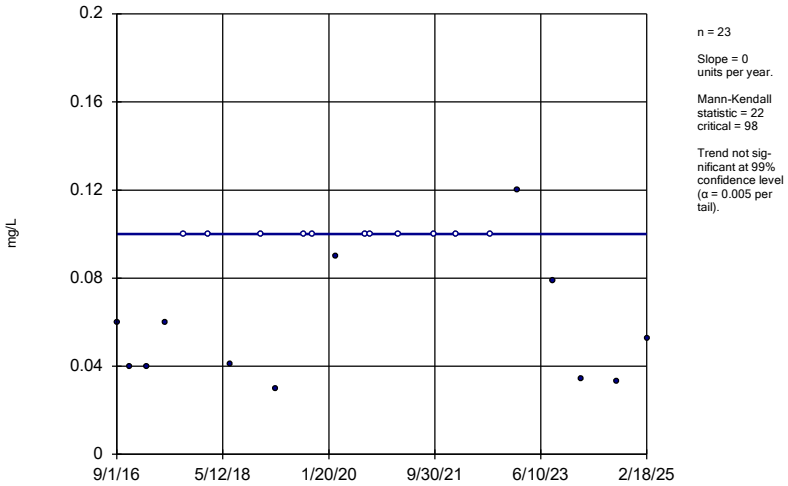
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 22 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

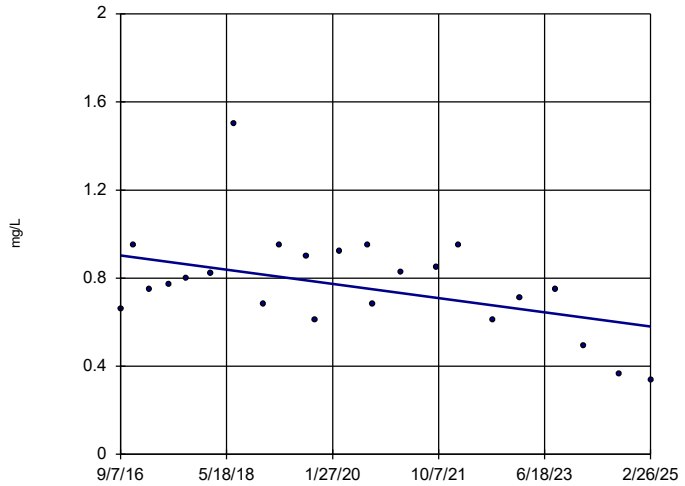
Constituent: Fluoride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 23

Slope = -0.03813 units per year.

Mann-Kendall statistic = -68 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

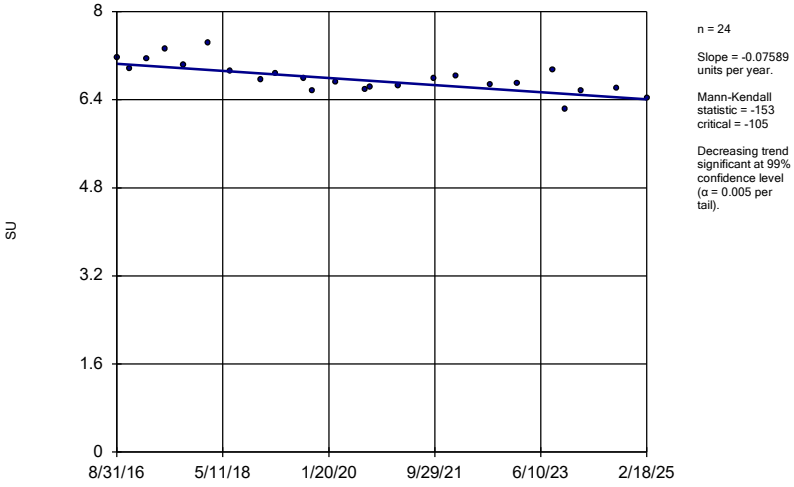
Constituent: Fluoride Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 24

Slope = -0.07589 units per year.

Mann-Kendall statistic = -153 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

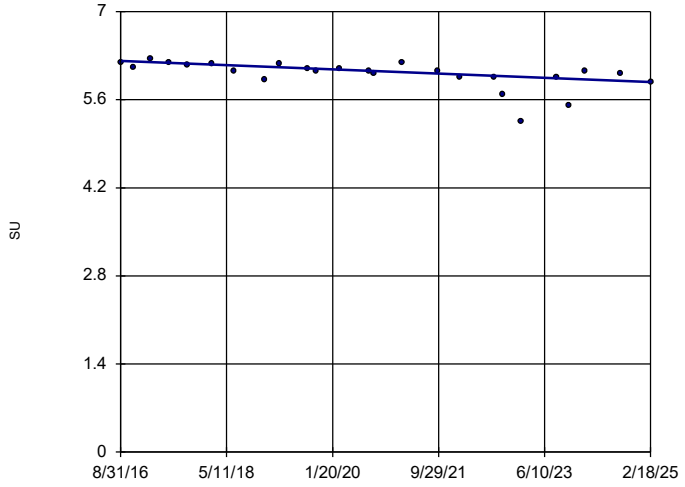
Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2S (bg)



n = 25

Slope = -0.03954 units per year.

Mann-Kendall statistic = -167 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

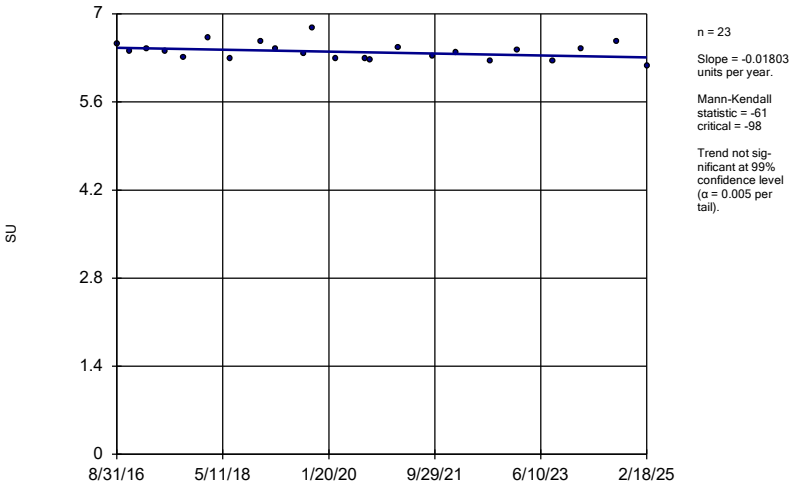
Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 23

Slope = -0.01803 units per year.

Mann-Kendall statistic = -61
critical = -98

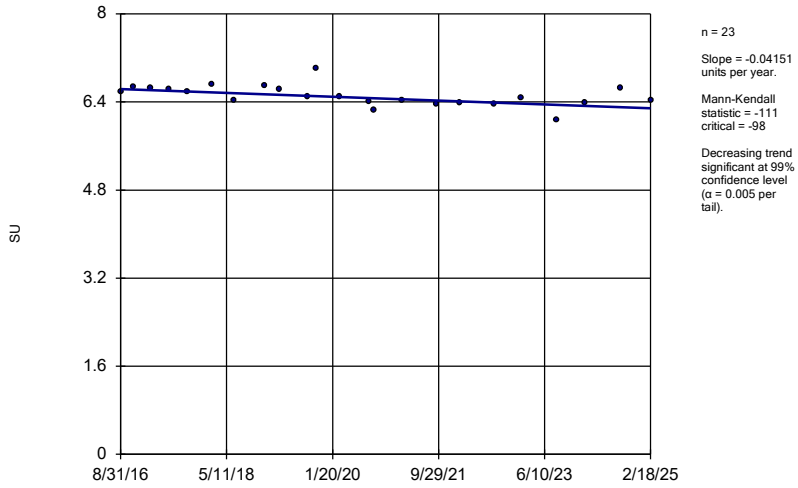
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 23

Slope = -0.04151 units per year.

Mann-Kendall statistic = -111
critical = -98

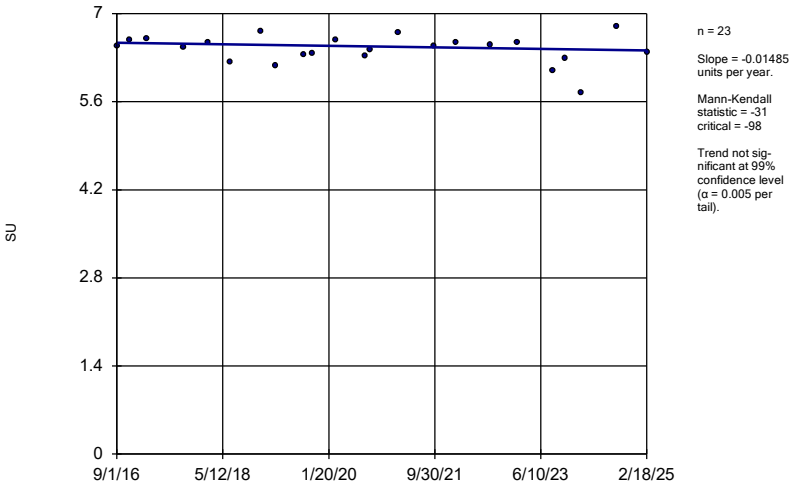
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 23

Slope = -0.01485 units per year.

Mann-Kendall statistic = -31
critical = -98

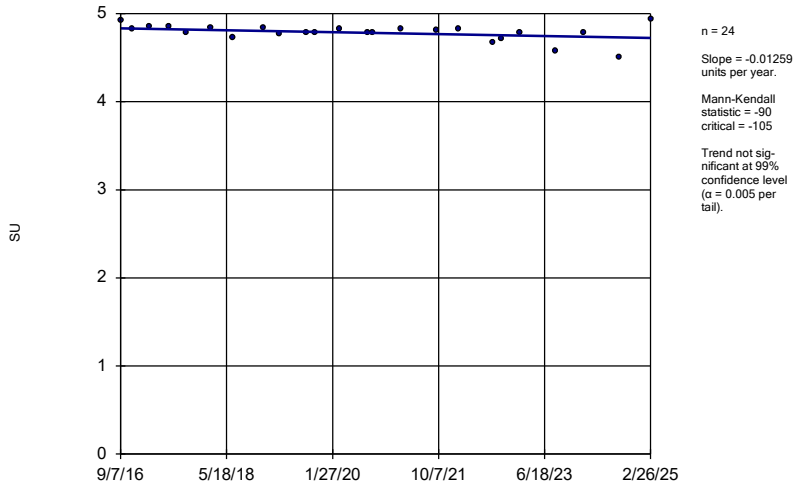
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 24

Slope = -0.01259 units per year.

Mann-Kendall statistic = -90
critical = -105

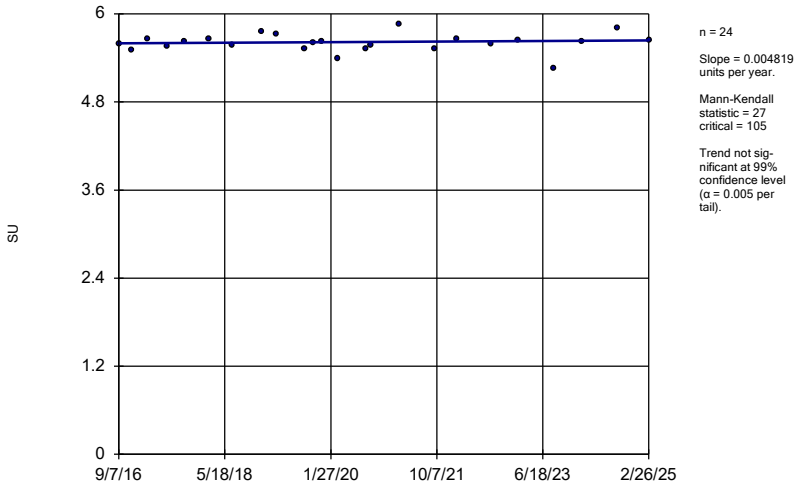
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 24

Slope = 0.004819 units per year.

Mann-Kendall statistic = 27
critical = 105

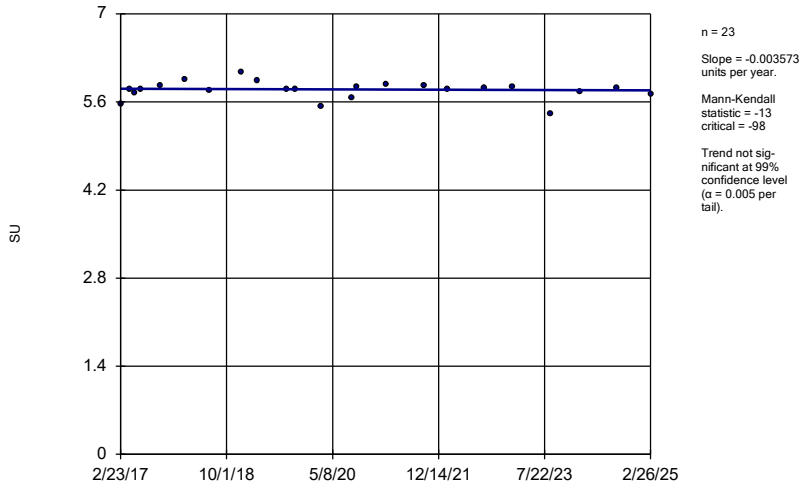
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-37S



n = 23

Slope = -0.003573 units per year.

Mann-Kendall statistic = -13
critical = -98

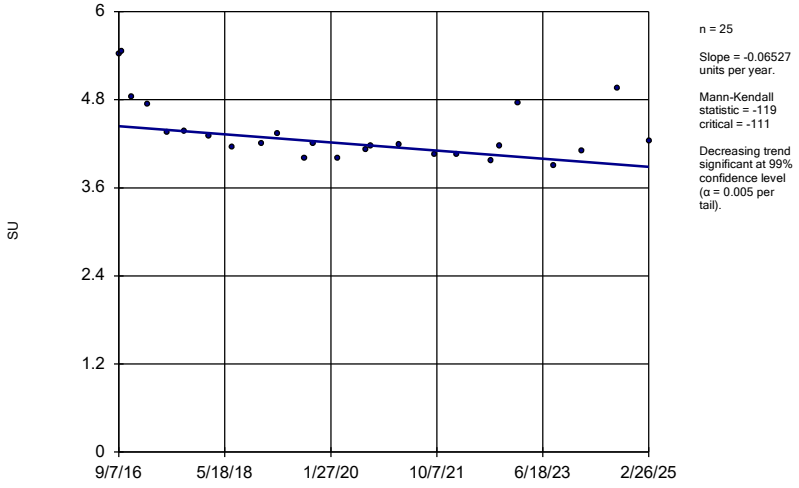
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 25

Slope = -0.06527 units per year.

Mann-Kendall statistic = -119
critical = -111

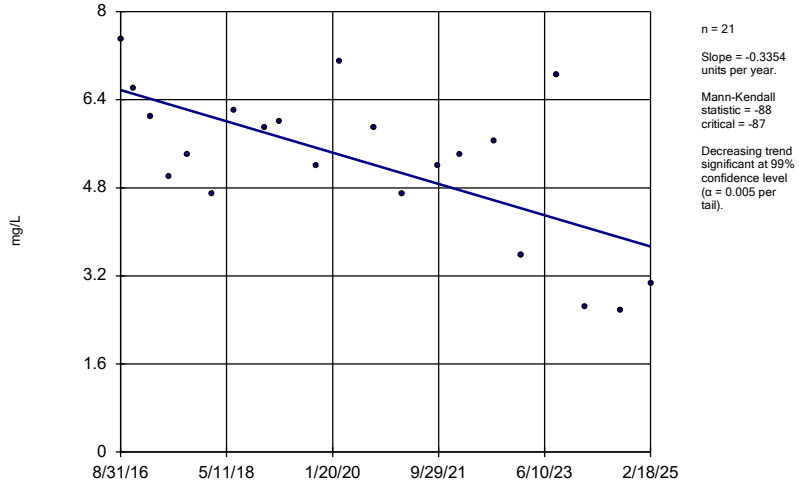
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -0.3354 units per year.

Mann-Kendall statistic = -88
critical = -87

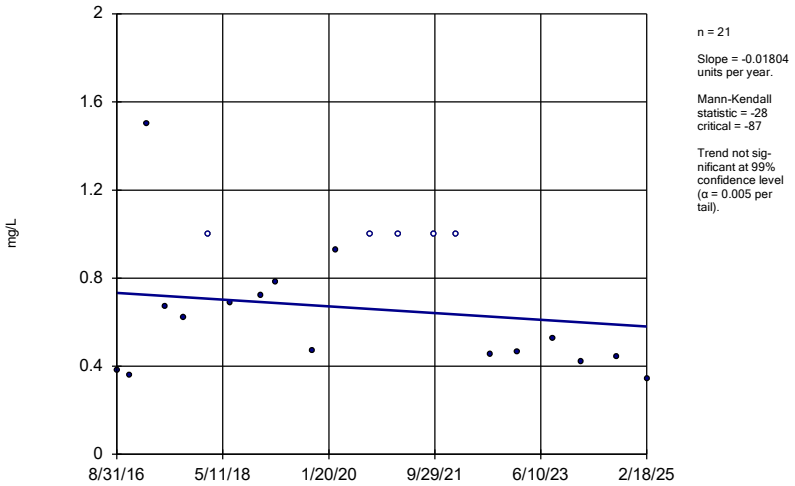
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -0.01804 units per year.

Mann-Kendall statistic = -28
critical = -87

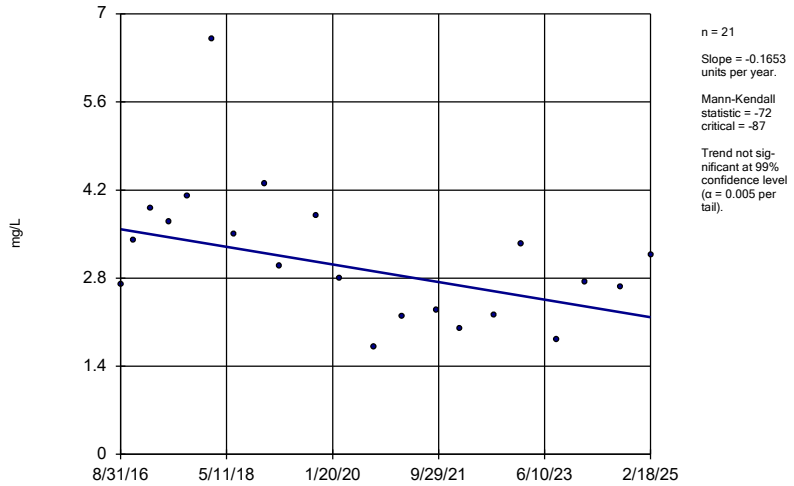
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.1653 units per year.

Mann-Kendall statistic = -72
critical = -87

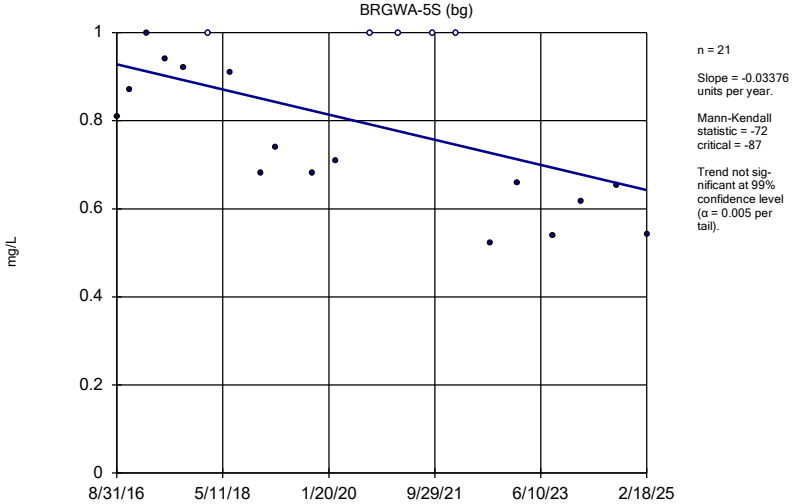
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -0.03376 units per year.

Mann-Kendall statistic = -72
critical = -87

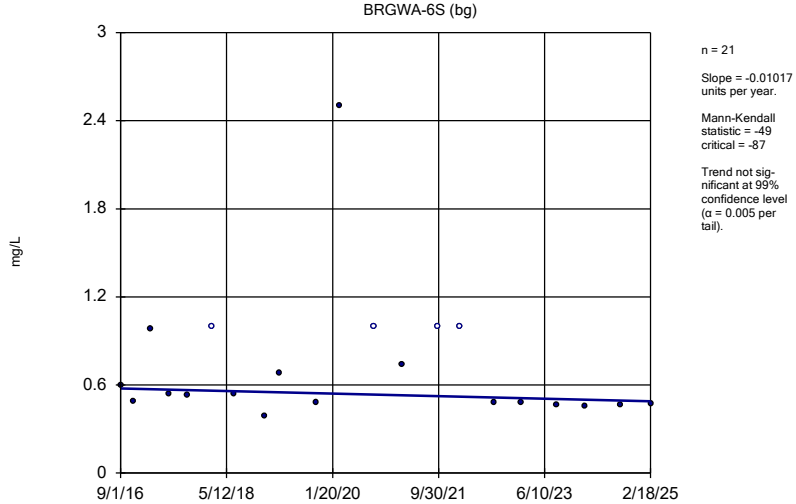
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 21

Slope = -0.01017 units per year.

Mann-Kendall statistic = -49
critical = -87

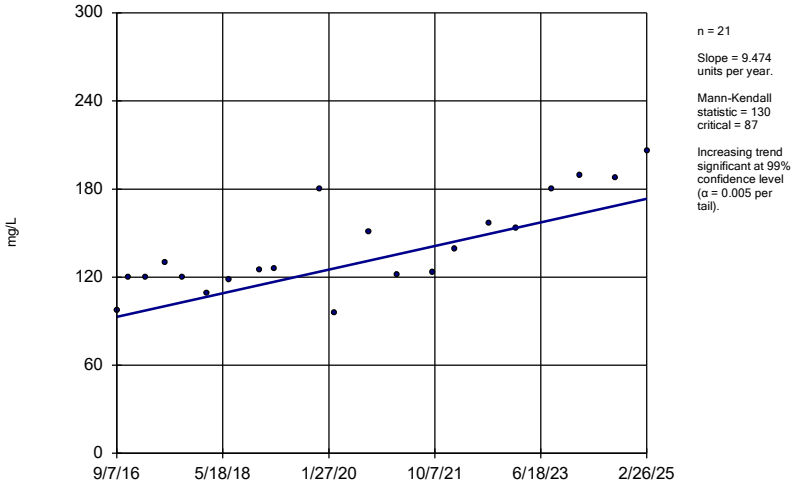
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 21

Slope = 9.474 units per year.

Mann-Kendall statistic = 130 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

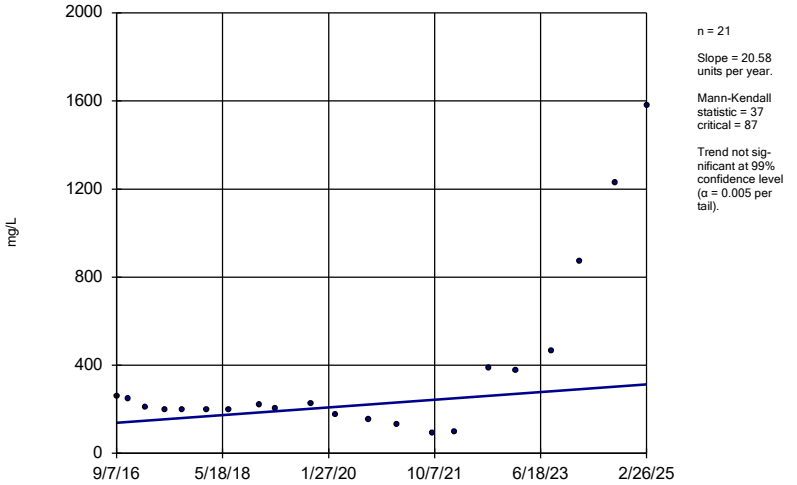
Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 21

Slope = 20.58 units per year.

Mann-Kendall statistic = 37 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

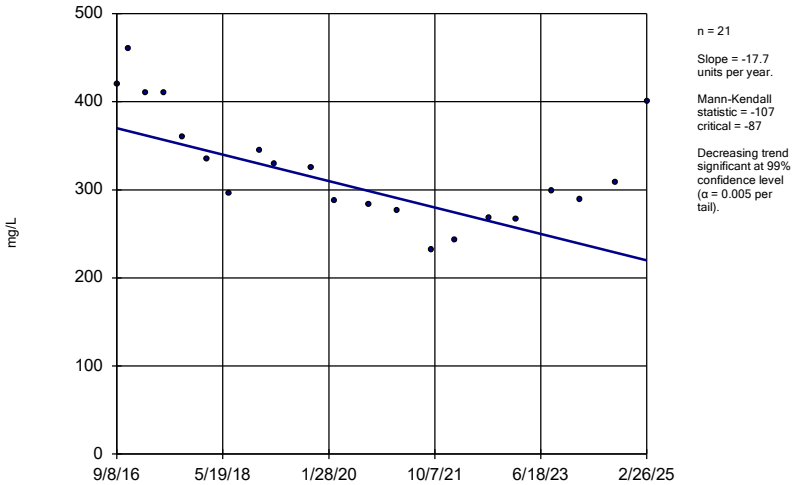
Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 21

Slope = -17.7 units per year.

Mann-Kendall statistic = -107 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

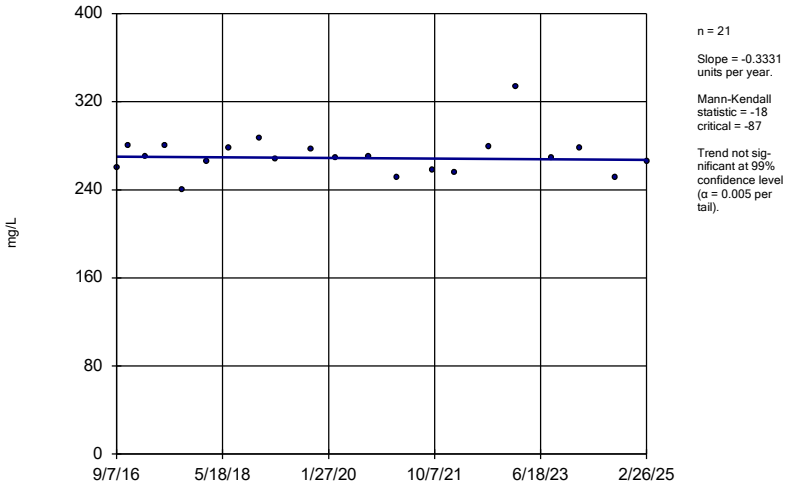
Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 21

Slope = -0.3331 units per year.

Mann-Kendall statistic = -18 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

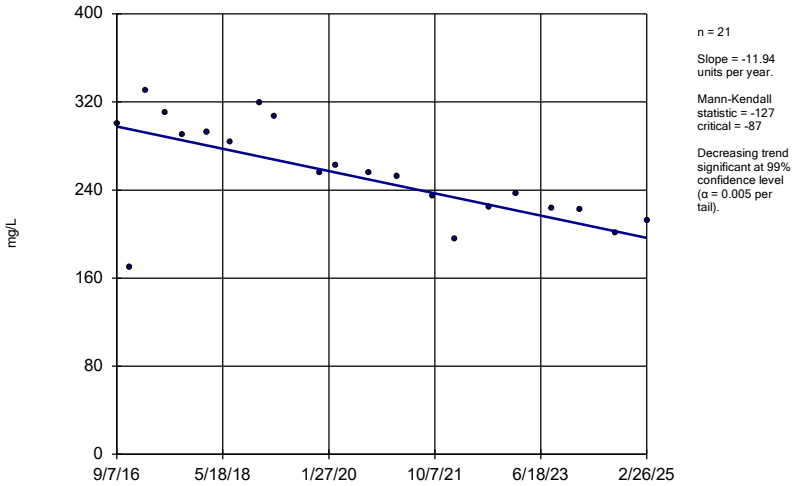
Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 21

Slope = -11.94 units per year.

Mann-Kendall statistic = -127
critical = -87

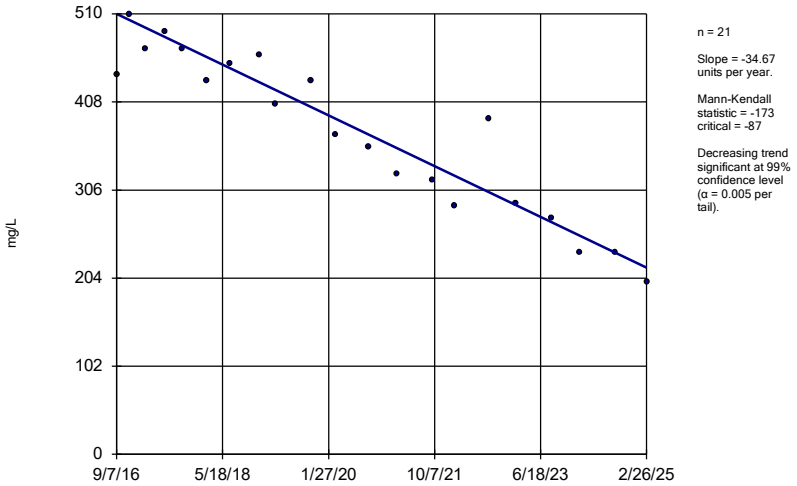
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = -34.67 units per year.

Mann-Kendall statistic = -173
critical = -87

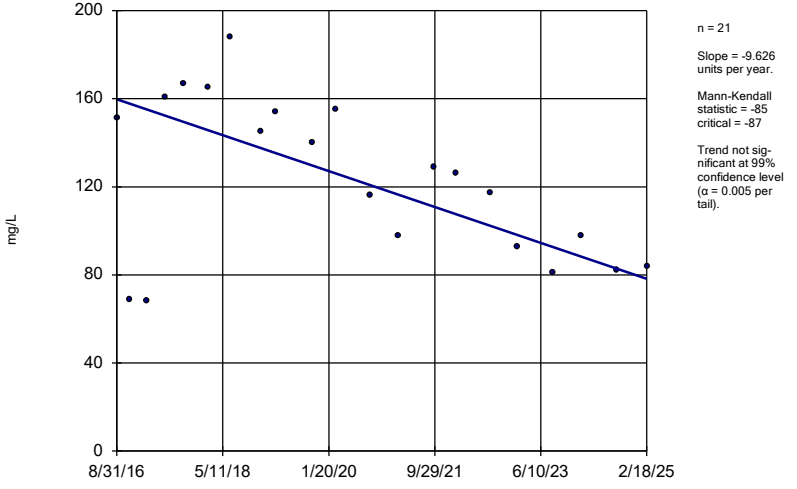
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-2I (bg)



n = 21

Slope = -9.626 units per year.

Mann-Kendall statistic = -85
critical = -87

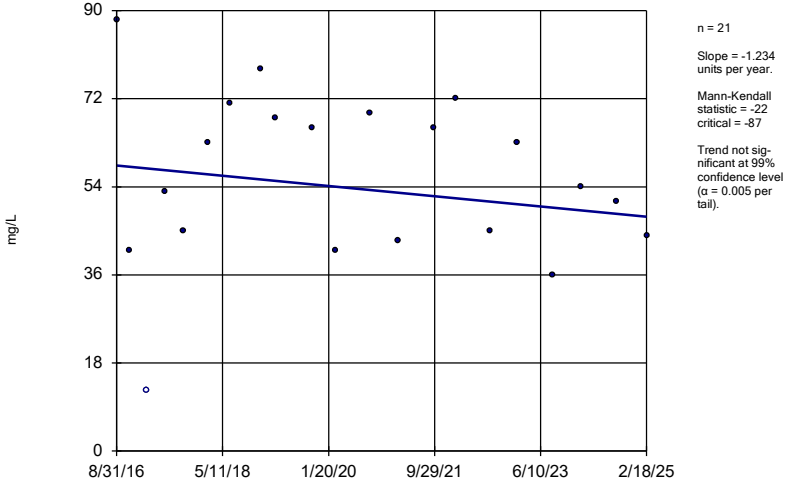
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 21

Slope = -1.234 units per year.

Mann-Kendall statistic = -22
critical = -87

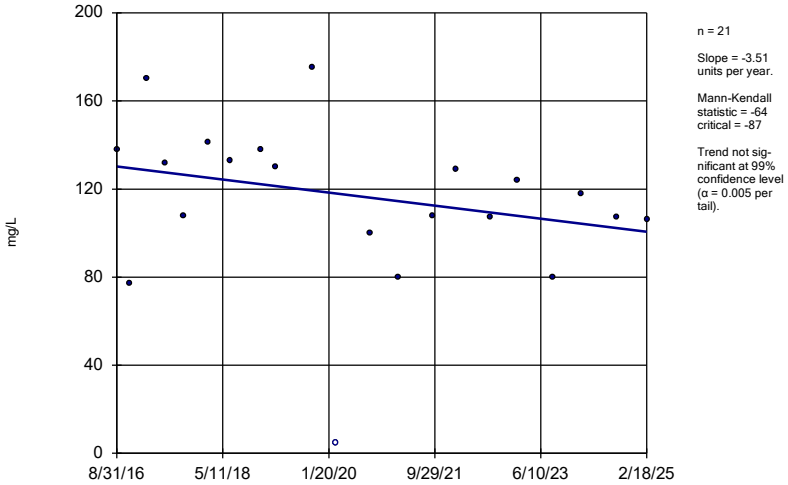
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -3.51 units per year.

Mann-Kendall statistic = -64
critical = -87

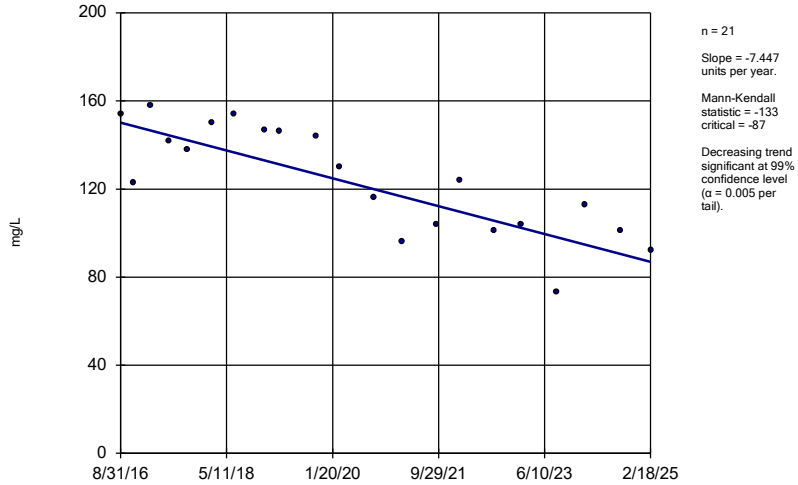
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-5S (bg)



n = 21

Slope = -7.447 units per year.

Mann-Kendall statistic = -133
critical = -87

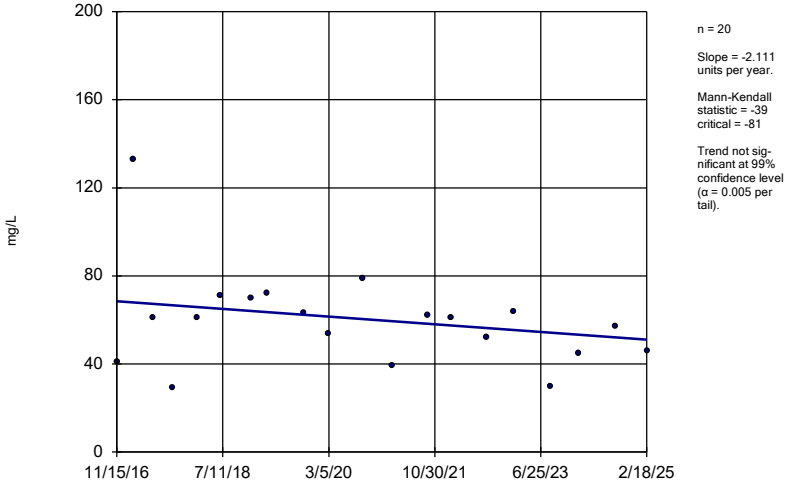
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWA-6S (bg)



n = 20

Slope = -2.111 units per year.

Mann-Kendall statistic = -39
critical = -81

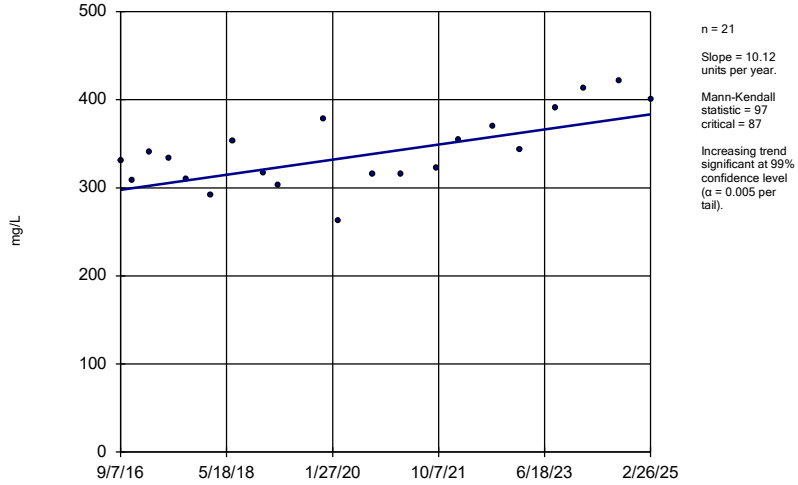
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-17S



n = 21

Slope = 10.12 units per year.

Mann-Kendall statistic = 97
critical = 87

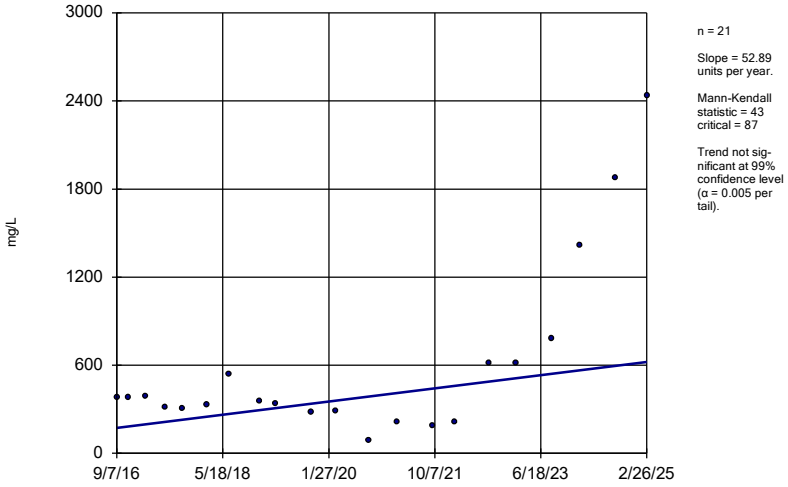
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 21

Slope = 52.89 units per year.

Mann-Kendall statistic = 43 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

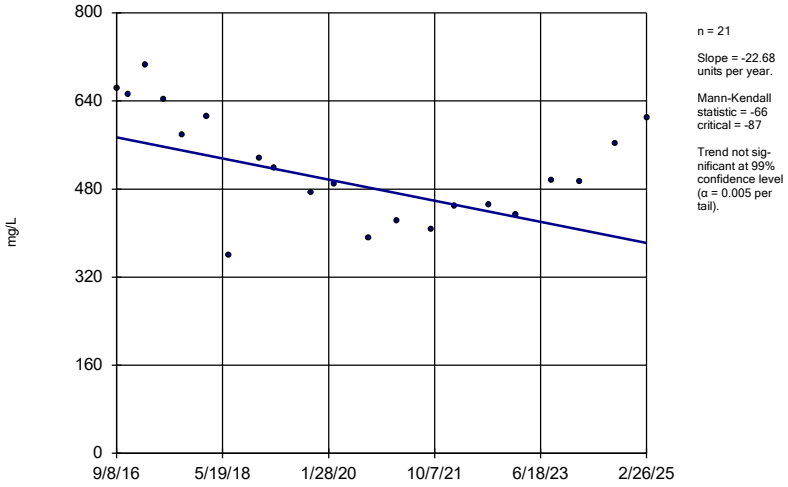
Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-34S



n = 21

Slope = -22.68 units per year.

Mann-Kendall statistic = -66 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

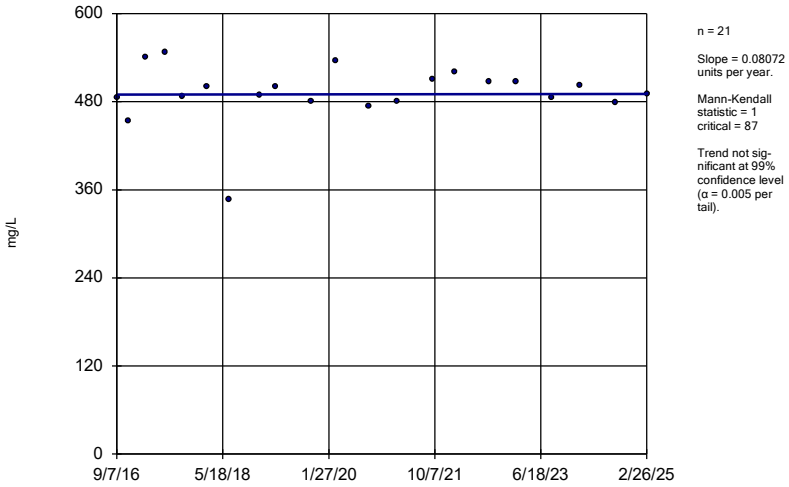
Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-35S



n = 21

Slope = 0.08072 units per year.

Mann-Kendall statistic = 1 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

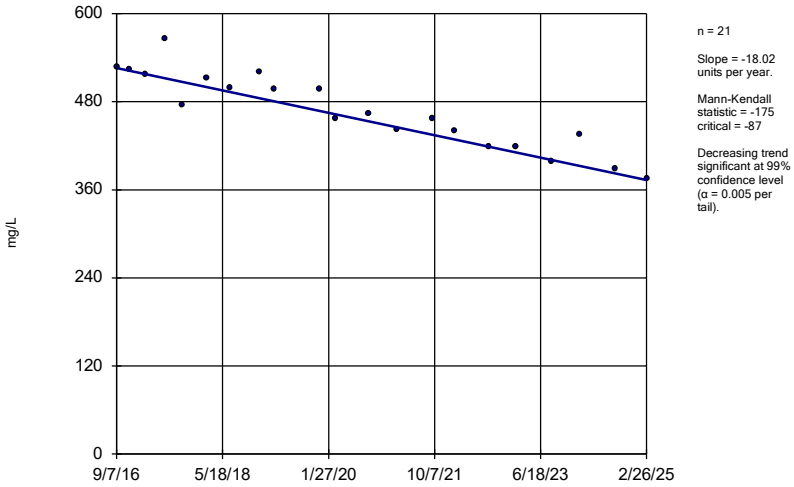
Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-36S



n = 21

Slope = -18.02 units per year.

Mann-Kendall statistic = -175 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

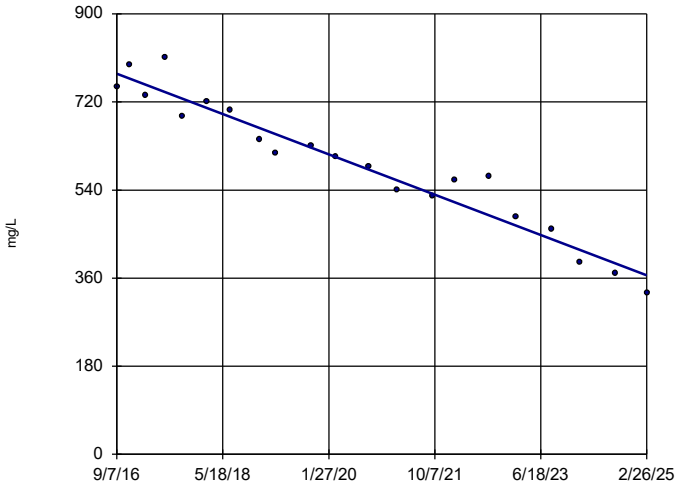
Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 21

Slope = -48.66 units per year.

Mann-Kendall statistic = -186
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 12:50 PM View: Appendix III - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

FIGURE F.

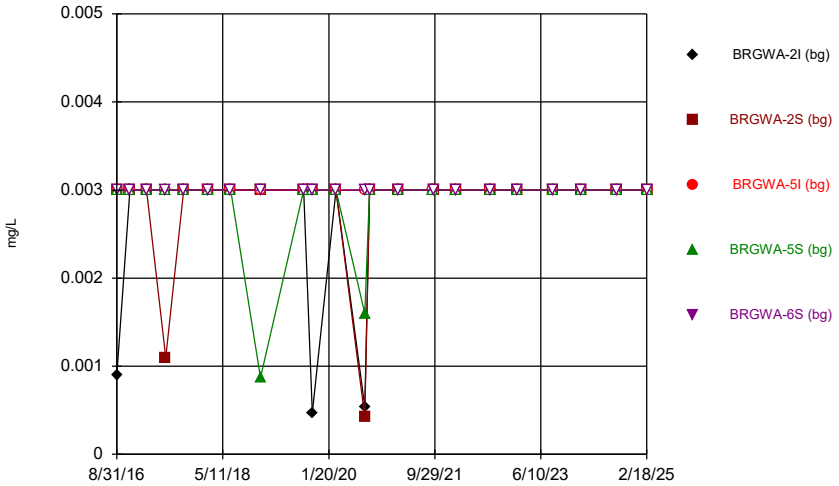
Upper Tolerance Limits

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 12:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	110	93.64	n/a	0.003545	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	110	77.27	n/a	0.003545	NP Inter(NDs)
Barium (mg/L)	n/a	0.063	n/a	n/a	n/a	n/a	110	0	n/a	0.003545	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)
Chromium (mg/L)	n/a	0.016	n/a	n/a	n/a	n/a	110	14.55	n/a	0.003545	NP Inter(normality)
Cobalt (mg/L)	n/a	0.0034	n/a	n/a	n/a	n/a	109	44.04	n/a	0.003731	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.083	n/a	n/a	n/a	n/a	110	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.289	n/a	n/a	n/a	n/a	115	46.96	n/a	0.002743	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	110	84.55	n/a	0.003545	NP Inter(NDs)
Lithium (mg/L)	n/a	0.089	n/a	n/a	n/a	n/a	110	48.18	n/a	0.003545	NP Inter(normality)
Mercury (mg/L)	n/a	0.00021	n/a	n/a	n/a	n/a	100	90	n/a	0.005921	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.008	n/a	n/a	n/a	n/a	110	66.36	n/a	0.003545	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	110	100	n/a	0.003545	NP Inter(NDs)

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

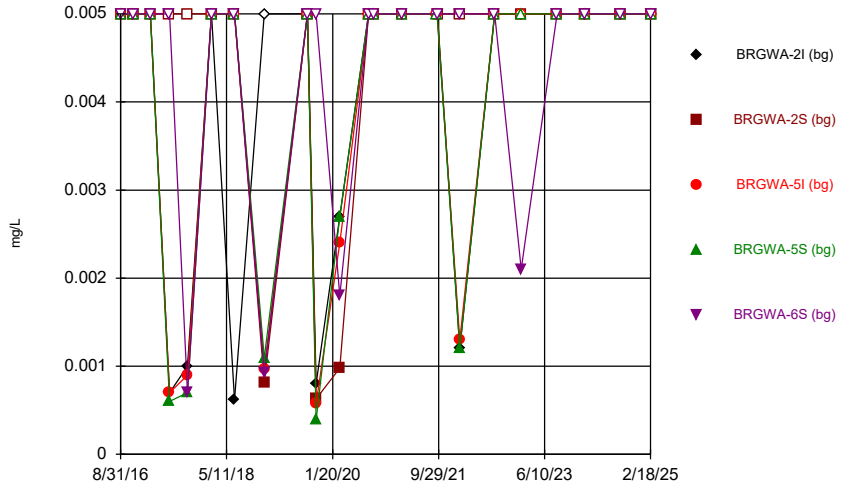
Time Series



Constituent: Antimony Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

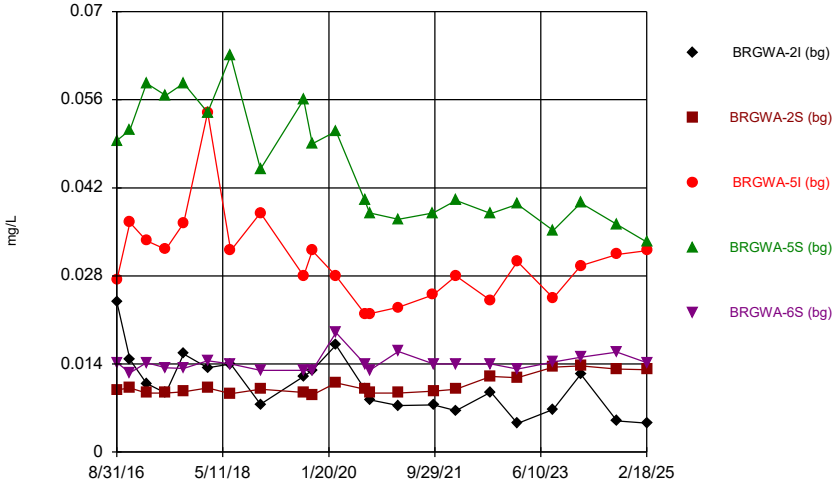
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

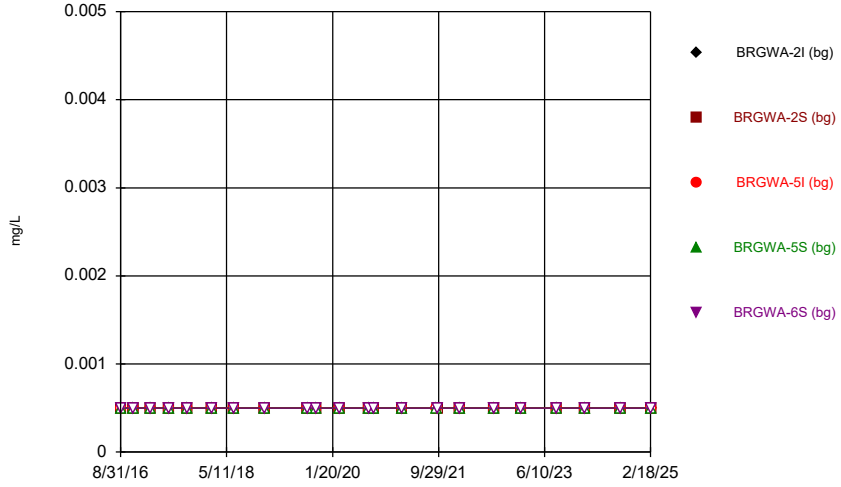
Time Series



Constituent: Barium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

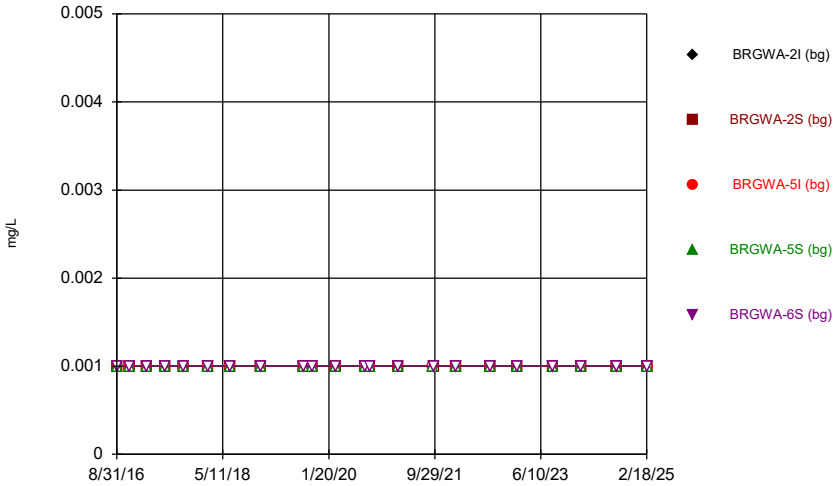
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

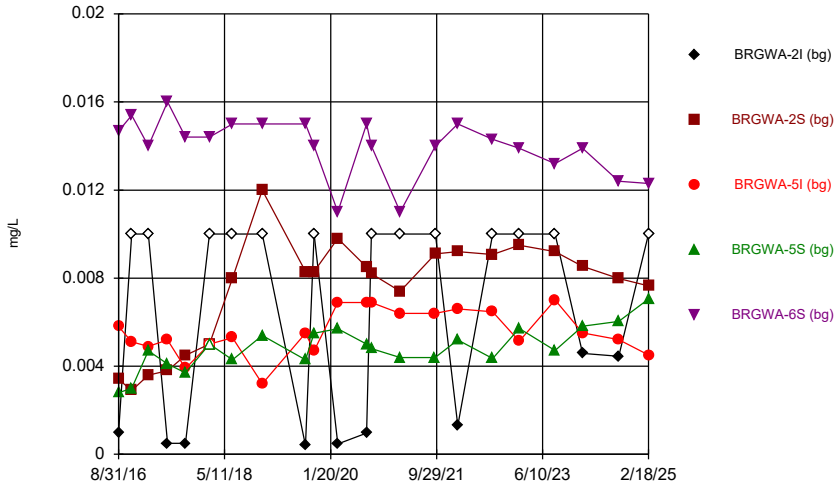
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

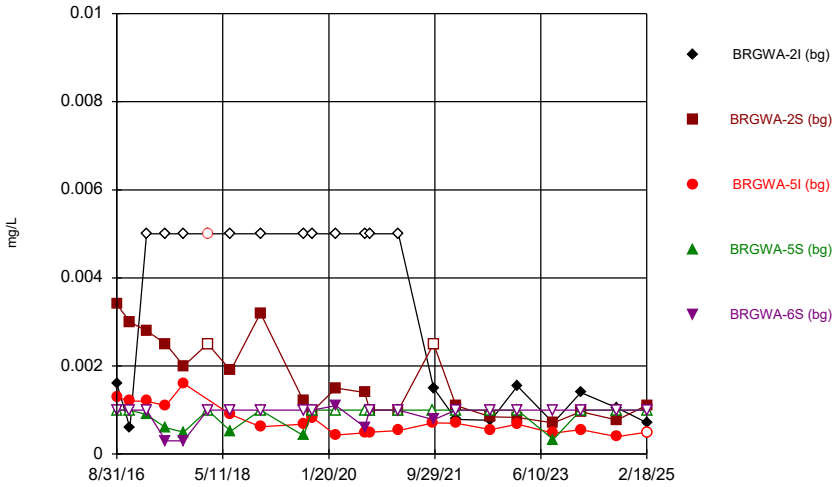
Time Series



Constituent: Chromium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

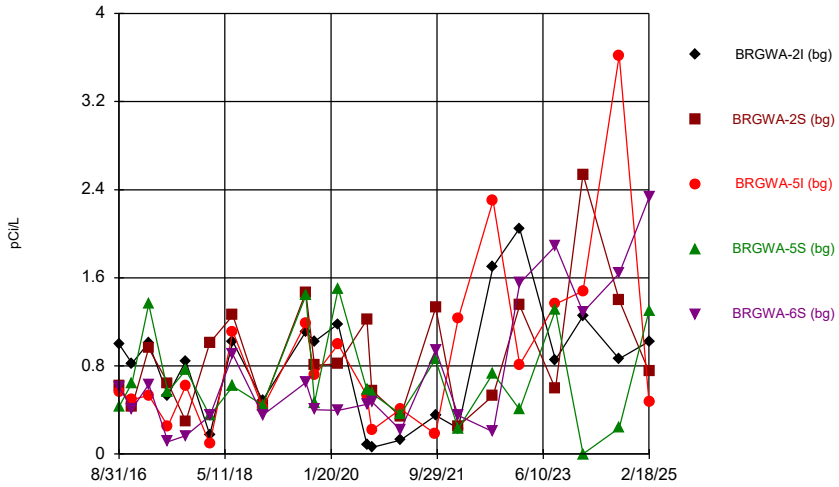
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

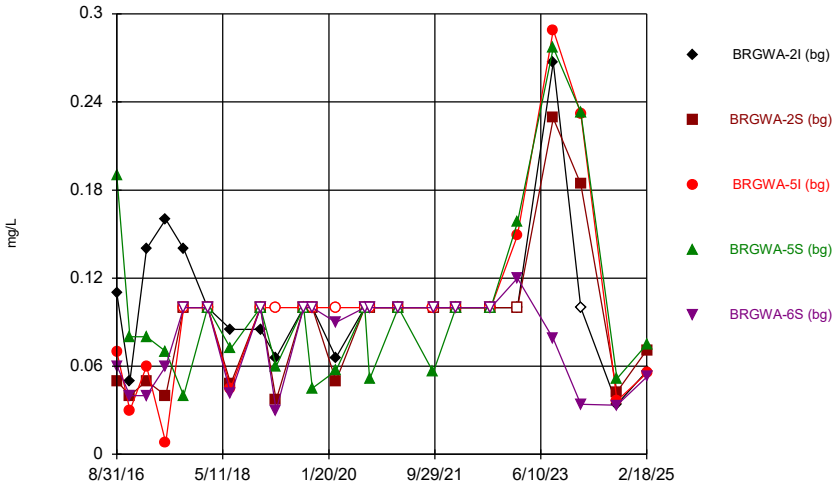
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

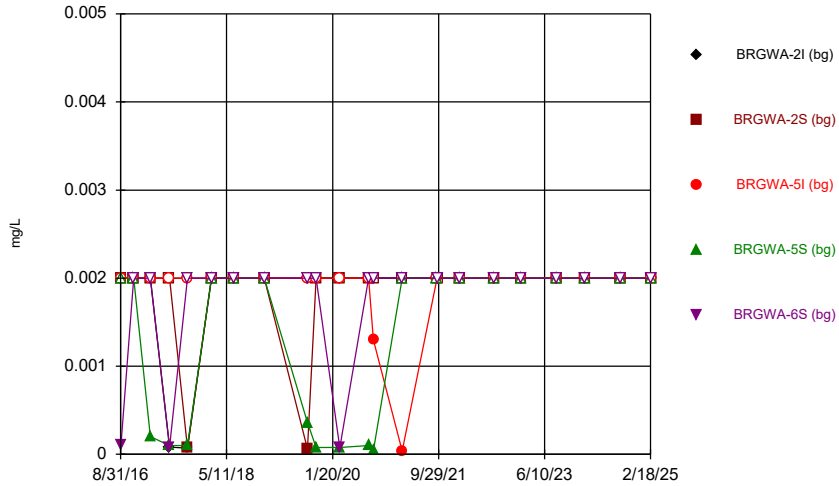
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

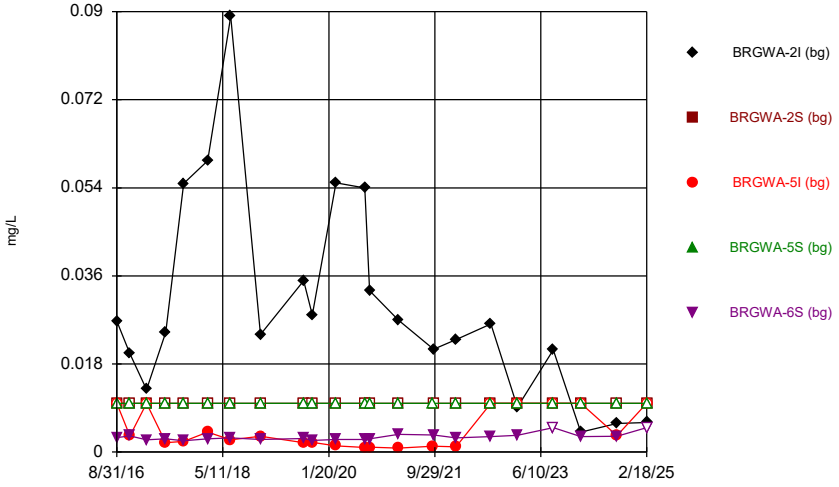
Time Series



Constituent: Lead Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

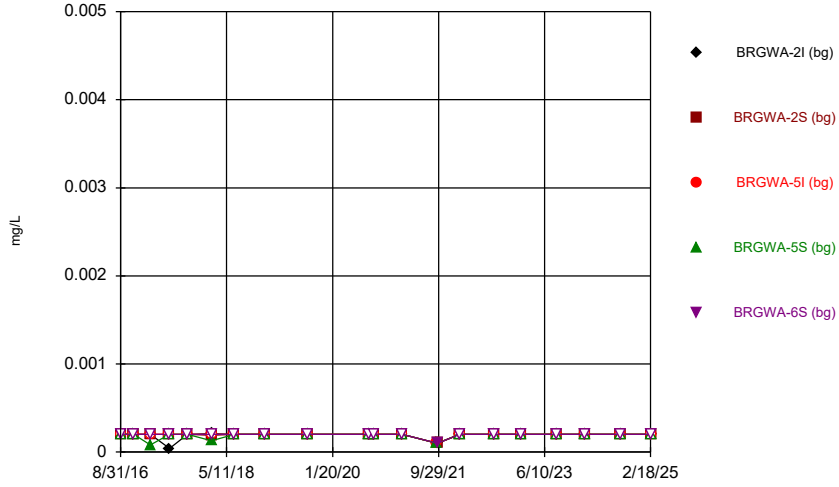
Time Series



Constituent: Lithium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

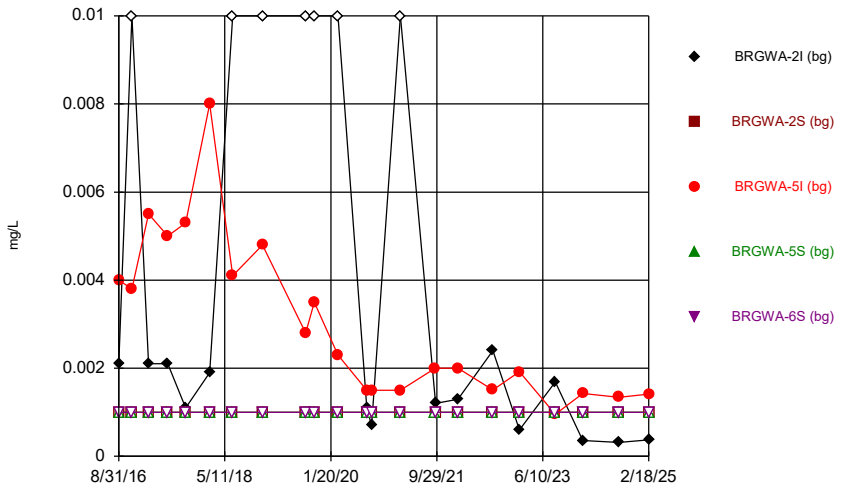
Time Series



Constituent: Mercury Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

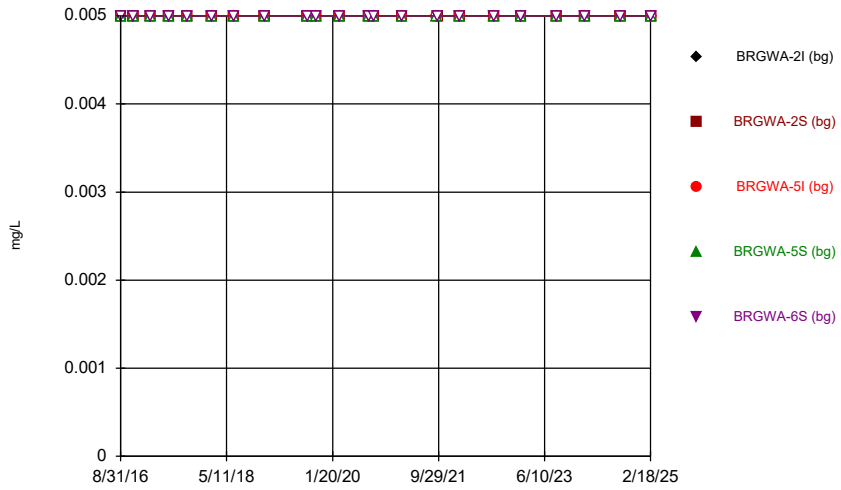
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

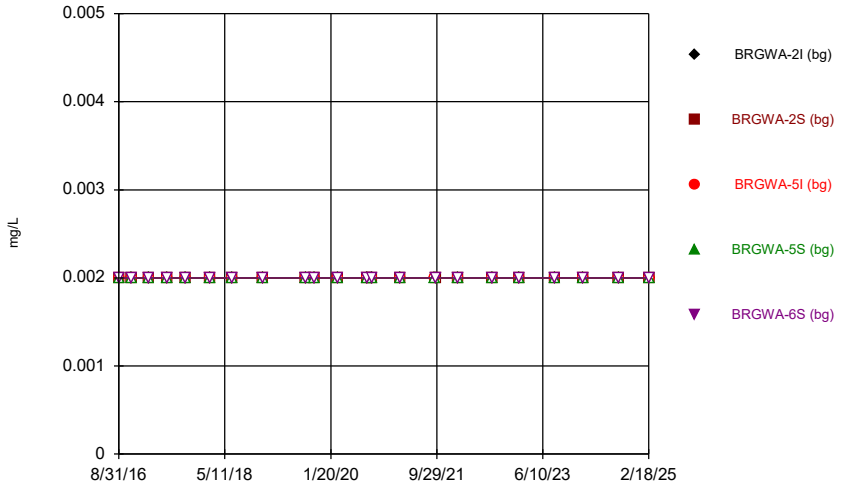
Time Series



Constituent: Selenium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

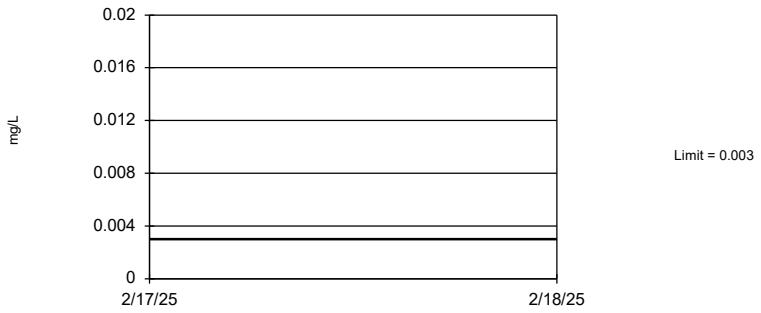


Constituent: Thallium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 110 background values. 93.64% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Antimony Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



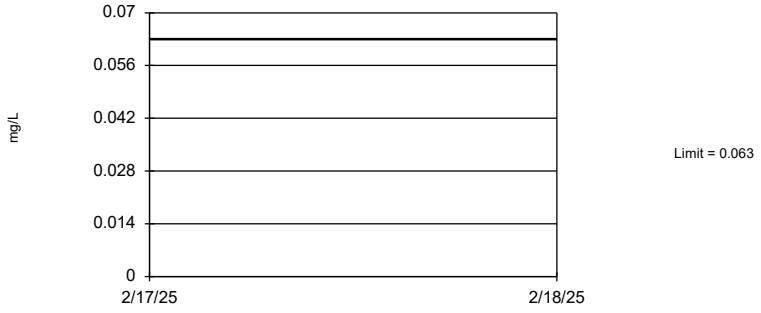
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 110 background values. 77.27% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Arsenic Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



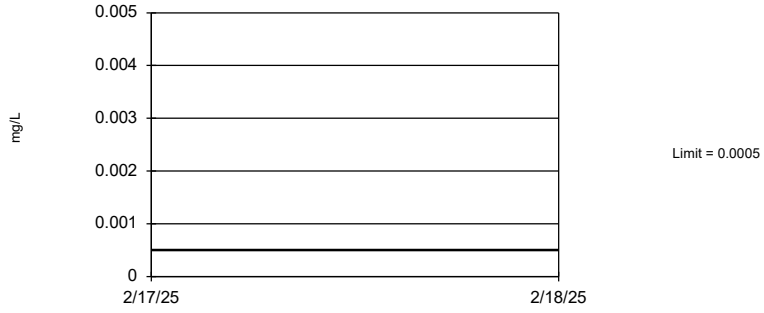
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 110 background values. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Barium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



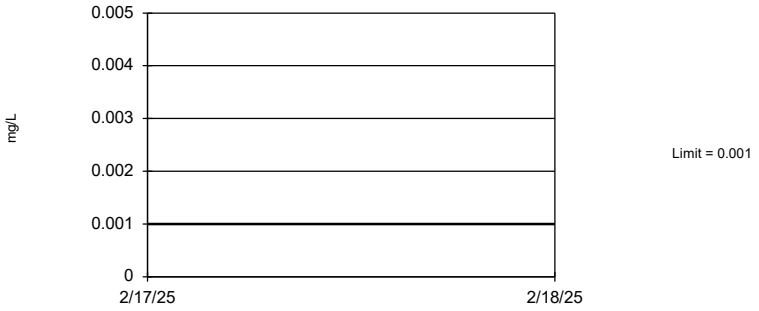
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Beryllium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Cadmium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



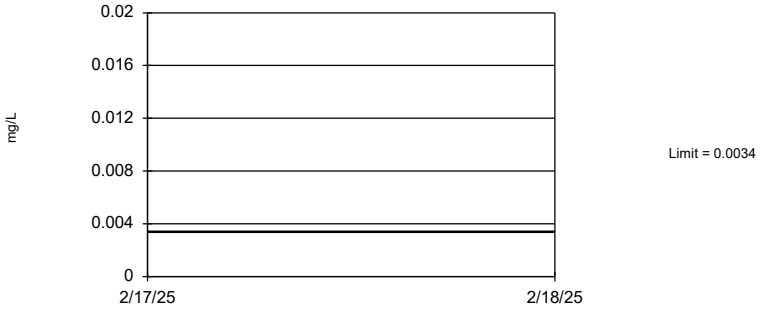
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 110 background values. 14.55% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Chromium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



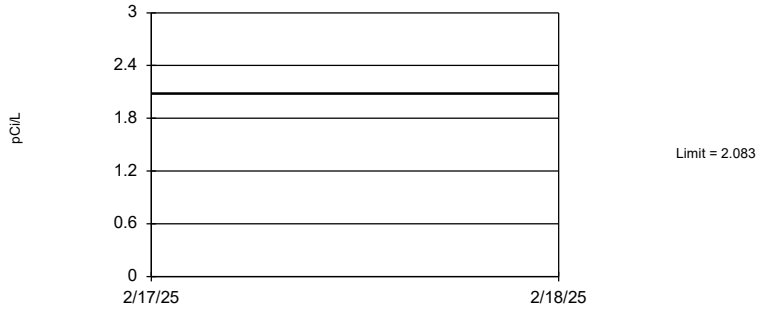
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 109 background values. 44.04% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003731.

Constituent: Cobalt Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Parametric



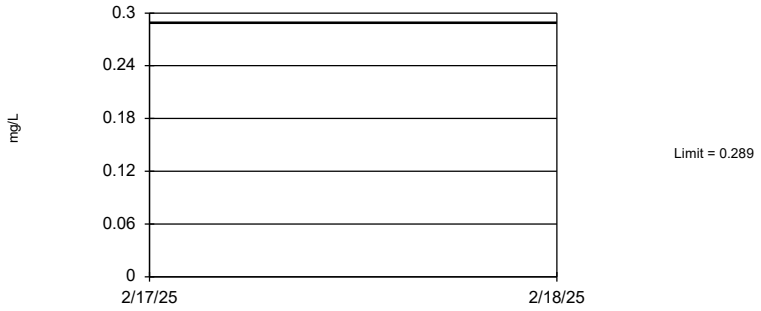
95% coverage. Background Data Summary (based on square root transformation): Mean=0.8401, Std. Dev.=0.3156, n=110. Normality test: Chi Squared @alpha = 0.01, calculated = 8.727, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 115 background values. 46.96% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002743.

Constituent: Fluoride Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



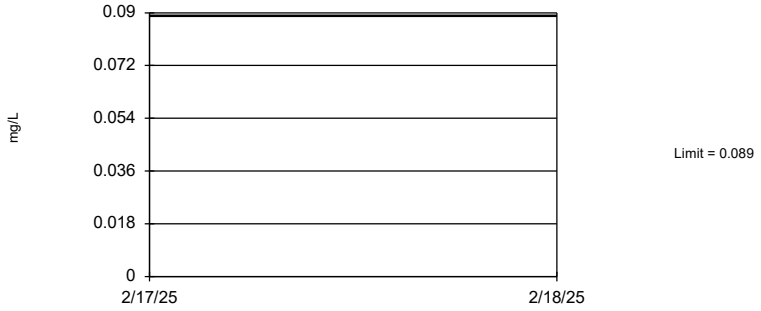
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 110 background values. 84.55% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Lead Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



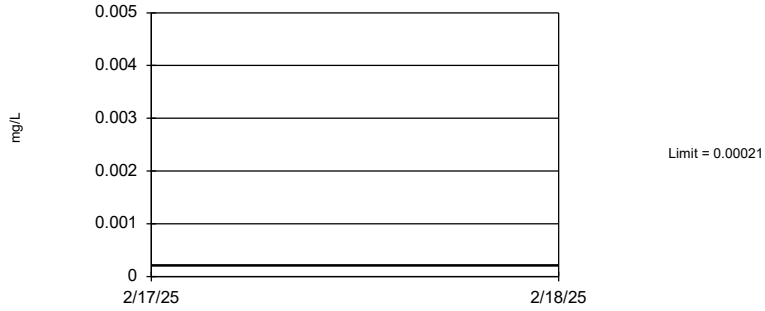
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 110 background values. 48.18% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Lithium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 100 background values. 90% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005921.

Constituent: Mercury Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



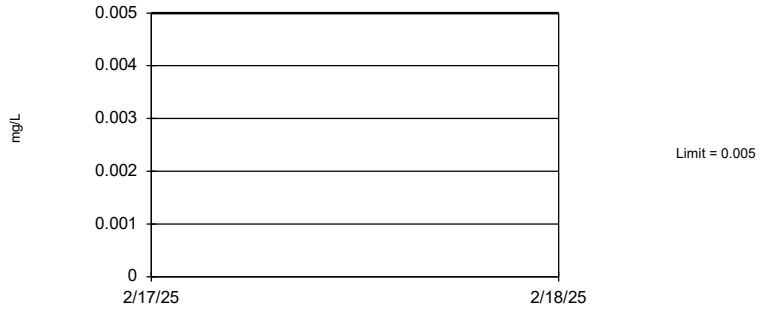
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 110 background values. 66.36% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Molybdenum Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Selenium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003545.

Constituent: Thallium Analysis Run 5/21/2025 12:53 PM View: UTLs
Plant Branch Client: Southern Company Data: Branch Pond E

FIGURE G.

PLANT BRANCH POND E GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.063	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.016	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0034	0.006
Combined Radium, Total (pCi/L)	5		2.08	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.089	0.089
Mercury, Total (mg/L)	0.002		0.00021	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.008	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Highlighted cells indicate Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**0.008948**	**0.00743**	**0.004**	**Yes**	**23**	**0.001451**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-33S**	**0.06708**	**0.04238**	**0.006**	**Yes**	**22**	**0.023**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**BRGWC-38S**	**0.2364**	**0.1775**	**0.006**	**Yes**	**22**	**0.05486**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BRGWC-17S	0.003	0.0009	0.006	No	22	0.0004477	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-36S	0.003	0.0016	0.006	No	22	0.0009101	81.82	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-37S	0.003	0.0006	0.006	No	22	0.0007363	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	BRGWC-38S	0.003	0.0009	0.006	No	22	0.0006481	90.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-17S	0.005	0.0033	0.01	No	22	0.001544	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-33S	0.00516	0.00262	0.01	No	22	0.001934	63.64	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-35S	0.005	0.0006	0.01	No	22	0.001588	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-36S	0.005	0.001	0.01	No	22	0.001691	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-37S	0.005	0.003	0.01	No	22	0.001721	77.27	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BRGWC-38S	0.002993	0.001834	0.01	No	22	0.001499	22.73	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	PZ-13S	0.005	0.00388	0.01	No	8	0.000396	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.005	0.00368	0.01	No	5	0.0005903	80	Kaplan-Meier	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-70I	0.005	0.00366	0.01	No	6	0.0005471	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Barium (mg/L)	BRGWC-17S	0.04557	0.04037	2	No	22	0.004841	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-33S	0.0357	0.02	2	No	22	0.01158	0	None	No	0.01	NP (normality)
Barium (mg/L)	BRGWC-34S	0.03226	0.02542	2	No	22	0.006371	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-35S	0.0489	0.03371	2	No	22	0.0185	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BRGWC-36S	0.03954	0.02961	2	No	22	0.01042	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BRGWC-37S	0.02552	0.02374	2	No	22	0.001655	0	None	No	0.01	Param.
Barium (mg/L)	BRGWC-38S	0.0215	0.015	2	No	22	0.008875	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-13S	0.14	0.0499	2	No	8	0.03026	0	None	No	0.004	NP (normality)
Barium (mg/L)	PZ-52D	0.01853	0.01495	2	No	5	0.001069	0	None	No	0.01	Param.
Barium (mg/L)	PZ-53D	0.05537	0.0494	2	No	6	0.002175	0	None	No	0.01	Param.
Barium (mg/L)	PZ-70I	0.0444	0.0196	2	No	6	0.009737	0	None	No	0.0155	NP (normality)
Beryllium (mg/L)	BRGWC-33S	0.002058	0.001647	0.004	No	22	0.0003824	4.545	None	No	0.01	Param.
Beryllium (mg/L)	BRGWC-34S	0.000205	0.00013	0.004	No	22	0.0001641	27.27	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-35S	0.00021	0.00012	0.004	No	22	0.0001576	22.73	None	No	0.01	NP (normality)
Beryllium (mg/L)	BRGWC-36S	0.0005	0.000087	0.004	No	23	0.0002035	39.13	None	No	0.01	NP (normality)
Beryllium (mg/L)	**BRGWC-38S**	**0.008948**	**0.00743**	**0.004**	**Yes**	**23**	**0.001451**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	PZ-13S	0.0004683	0.0003075	0.004	No	8	0.00007584	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-70I	0.0003922	0.0002462	0.004	No	6	0.00009094	16.67	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BRGWC-33S	0.0005705	0.000357	0.005	No	22	0.0001989	4.545	None	No	0.01	Param.
Cadmium (mg/L)	BRGWC-34S	0.001	0.00018	0.005	No	22	0.0003625	31.82	None	No	0.01	NP (normality)
Cadmium (mg/L)	BRGWC-36S	0.001	0.00011	0.005	No	23	0.0003111	86.96	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BRGWC-38S	0.0005792	0.0004646	0.005	No	22	0.0001067	4.545	None	No	0.01	Param.
Cadmium (mg/L)	PZ-13S	0.001	0.00011	0.005	No	8	0.0003147	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BRGWC-17S	0.0123	0.009821	0.1	No	22	0.002307	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-33S	0.01	0.00049	0.1	No	22	0.002028	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	BRGWC-35S	0.006376	0.004708	0.1	No	22	0.001554	4.545	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-36S	0.00797	0.00696	0.1	No	22	0.0009401	0	None	No	0.01	Param.
Chromium (mg/L)	BRGWC-37S	0.01	0.0014	0.1	No	22	0.004277	40.91	None	No	0.01	NP (normality)
Chromium (mg/L)	BRGWC-38S	0.004102	0.003317	0.1	No	22	0.0007311	4.545	None	No	0.01	Param.
Chromium (mg/L)	PZ-13S	0.02013	0.01117	0.1	No	8	0.004631	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	**BRGWC-33S**	**0.06708**	**0.04238**	**0.006**	**Yes**	**22**	**0.023**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	BRGWC-34S	0.004885	0.003591	0.006	No	22	0.001293	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BRGWC-35S	0.0012	0.0008	0.006	No	22	0.0003532	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**BRGWC-38S**	**0.2364**	**0.1775**	**0.006**	**Yes**	**22**	**0.05486**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	PZ-13S	0.001	0.00037	0.006	No	8	0.0002227	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	PZ-52D	0.00249	0.000307	0.006	No	7	0.0008333	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	PZ-53D	0.0012	0.001	0.006	No	7	0.00007559	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	PZ-70I	0.0056	0.000507	0.006	No	6	0.002002	0	None	No	0.0155	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BRGWC-17S	1.105	0.3548	5	No	22	1.172	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-33S	1.726	0.7744	5	No	22	1.006	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-34S	1.544	0.8442	5	No	22	1.017	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-35S	1.717	0.7169	5	No	22	1.05	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-36S	2.038	0.8893	5	No	22	1.278	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-37S	1.359	0.4768	5	No	22	1.137	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BRGWC-38S	3.707	2.285	5	No	22	1.449	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-13S	4.042	0.5244	5	No	8	1.659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	6.718	0.5739	5	No	5	1.833	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-53D	4.304	2.313	5	No	6	0.7247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-70I	3.667	0.9054	5	No	6	1.143	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-17S	0.2009	0.1008	4	No	23	0.11	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-33S	0.2365	0.1302	4	No	23	0.1017	0	None	No	0.01	Param.
Fluoride (mg/L)	BRGWC-34S	0.1382	0.08651	4	No	23	0.07208	4.348	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-35S	0.22	0.055	4	No	23	0.09918	13.04	None	No	0.01	NP (normality)
Fluoride (mg/L)	BRGWC-36S	0.1488	0.05575	4	No	23	0.1046	39.13	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BRGWC-37S	0.1	0.055	4	No	23	0.02766	34.78	None	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

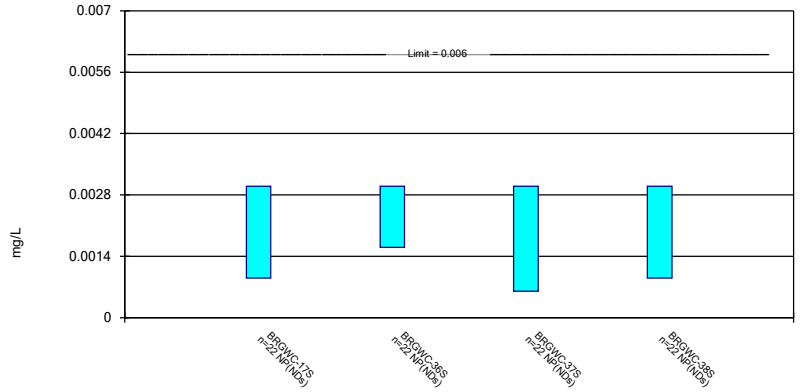
Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BRGWC-38S	0.8988	0.6517	4	No	23	0.2362	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-13S	0.1541	0.02709	4	No	8	0.05563	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	2.04	0.14	4	No	7	0.7946	0	None	No	0.008	NP (normality)
Fluoride (mg/L)	PZ-53D	0.2978	0.06986	4	No	7	0.09595	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-70I	1.43	0.1	4	No	6	0.5342	50	None	No	0.0155	NP (normality)
Lead (mg/L)	BRGWC-17S	0.002	0.0001	0.015	No	22	0.0005659	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-33S	0.002	0.000088	0.015	No	22	0.0009709	50	None	No	0.01	NP (normality)
Lead (mg/L)	BRGWC-34S	0.002	0.0003	0.015	No	22	0.0006462	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-35S	0.002	0.0002	0.015	No	22	0.0007384	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-36S	0.002	0.000047	0.015	No	22	0.0004164	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-37S	0.002	0.0001	0.015	No	22	0.0005591	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	BRGWC-38S	0.002	0.00036	0.015	No	22	0.0007928	36.36	None	No	0.01	NP (normality)
Lead (mg/L)	PZ-13S	0.002	0.00035	0.015	No	8	0.0005834	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	BRGWC-17S	0.01	0.001	0.089	No	22	0.004301	68.18	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-33S	0.01046	0.00939	0.089	No	22	0.000999	0	None	No	0.01	Param.
Lithium (mg/L)	BRGWC-34S	0.01	0.00096	0.089	No	22	0.004163	72.73	None	No	0.01	NP (NDs)
Lithium (mg/L)	BRGWC-35S	0.0023	0.0021	0.089	No	22	0.003585	27.27	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-36S	0.01	0.0024	0.089	No	22	0.0036	31.82	None	No	0.01	NP (normality)
Lithium (mg/L)	BRGWC-38S	0.02221	0.02015	0.089	No	22	0.001919	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-13S	0.01	0.001	0.089	No	8	0.004009	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	PZ-52D	0.0184	0.0163	0.089	No	5	0.001028	0	None	No	0.031	NP (normality)
Lithium (mg/L)	PZ-53D	0.02026	0.01697	0.089	No	6	0.001196	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-70I	0.00615	0.00381	0.089	No	6	0.0009345	0	None	No	0.0155	NP (normality)
Mercury (mg/L)	BRGWC-17S	0.0002	0.0001	0.002	No	20	0.00004396	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-33S	0.0002	0.00012	0.002	No	20	0.00004705	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-34S	0.0002	0.00015	0.002	No	20	0.00004823	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-35S	0.0002	0.00013	0.002	No	20	0.00003677	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-36S	0.0002	0.00013	0.002	No	20	0.00003791	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-37S	0.0002	0.00014	0.002	No	20	0.00003776	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	BRGWC-38S	0.0001442	0.00009314	0.002	No	20	0.00004949	25	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	PZ-70I	0.002728	0	0.002	No	6	0.001132	33.33	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.02316	0.004261	0.1	No	5	0.00564	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-53D	0.002615	0.001612	0.1	No	6	0.0003649	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-70I	0.00142	0.001	0.1	No	6	0.0001715	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	BRGWC-17S	0.002596	0.001931	0.05	No	22	0.001197	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-33S	0.00572	0.0032	0.05	No	22	0.006961	36.36	None	No	0.01	NP (normality)
Selenium (mg/L)	BRGWC-36S	0.004343	0.002546	0.05	No	22	0.001848	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	BRGWC-38S	0.03796	0.02766	0.05	No	22	0.009595	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-13S	0.003199	0.001826	0.05	No	8	0.0006472	12.5	None	No	0.01	Param.
Selenium (mg/L)	PZ-70I	0.009103	0.005857	0.05	No	6	0.001181	0	None	No	0.01	Param.
Thallium (mg/L)	BRGWC-17S	0.002	0.000066	0.002	No	22	0.0004123	95.45	None	No	0.01	NP (NDs)
Thallium (mg/L)	BRGWC-33S	0.002	0.00019	0.002	No	22	0.0008875	36.36	None	No	0.01	NP (normality)
Thallium (mg/L)	BRGWC-38S	0.002	0.00021	0.002	No	22	0.0008856	40.91	None	No	0.01	NP (normality)

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

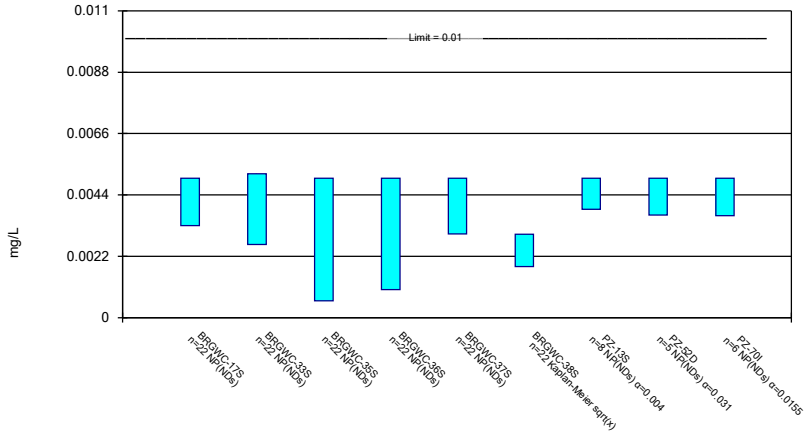


Constituent: Antimony Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

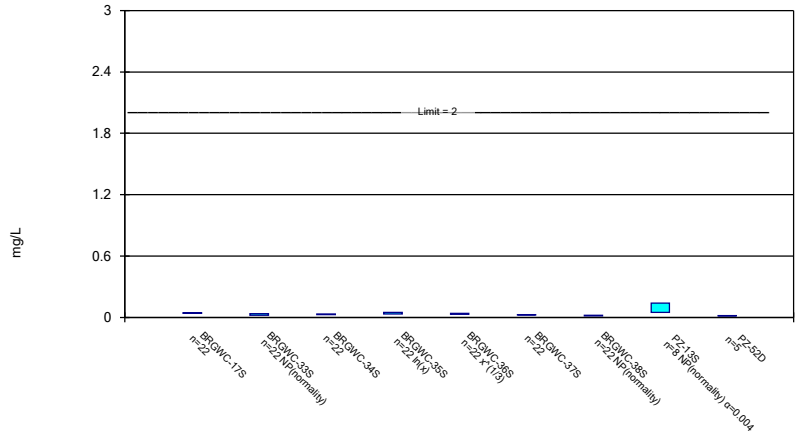


Constituent: Arsenic Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

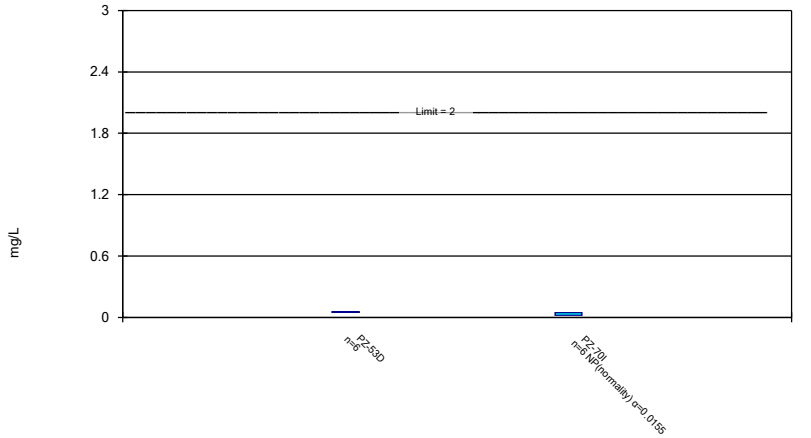


Constituent: Barium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

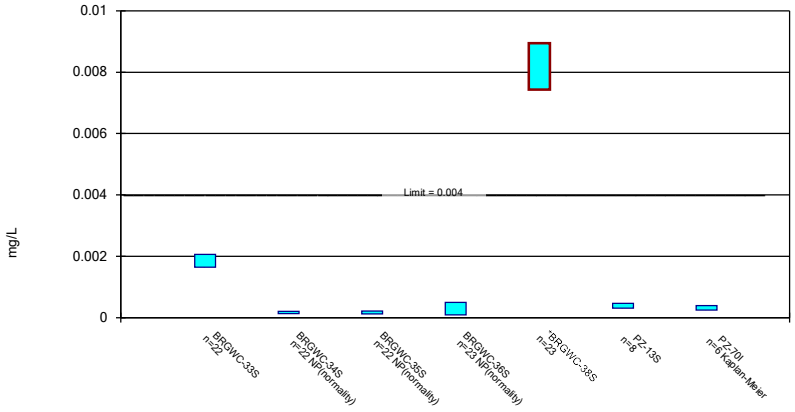


Constituent: Barium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

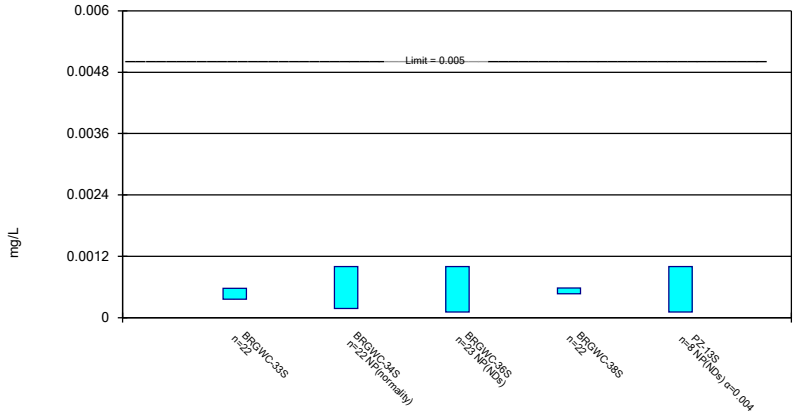


Constituent: Beryllium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

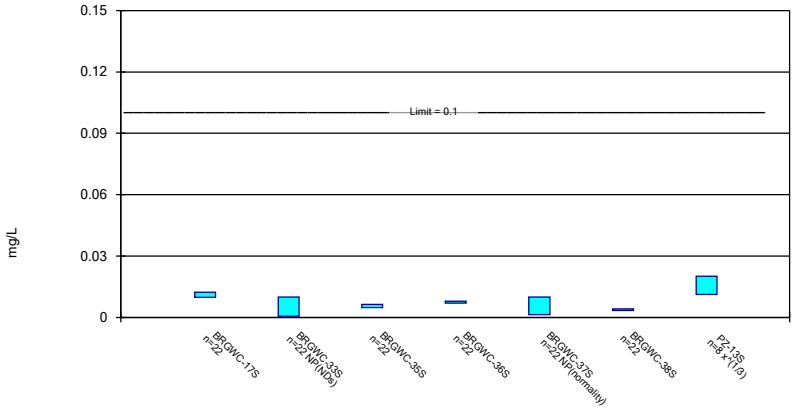


Constituent: Cadmium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

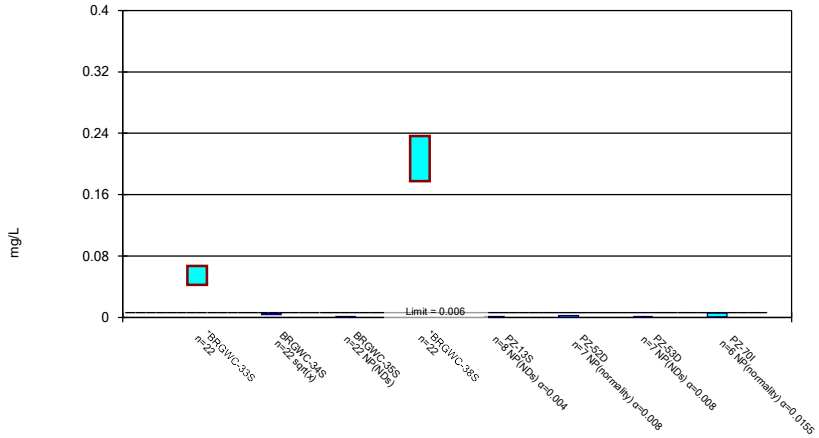


Constituent: Chromium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

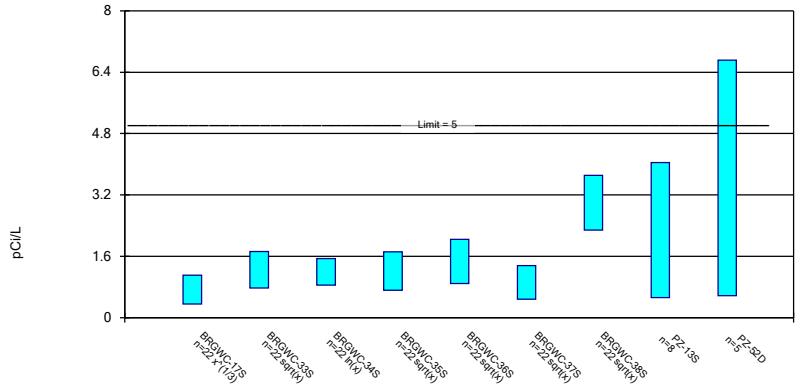


Constituent: Cobalt Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

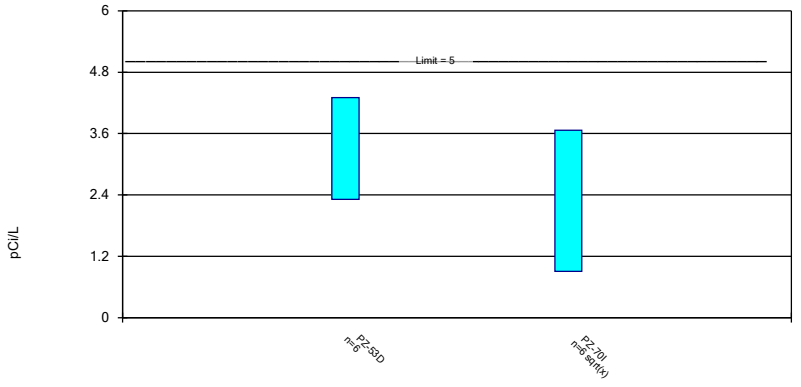


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

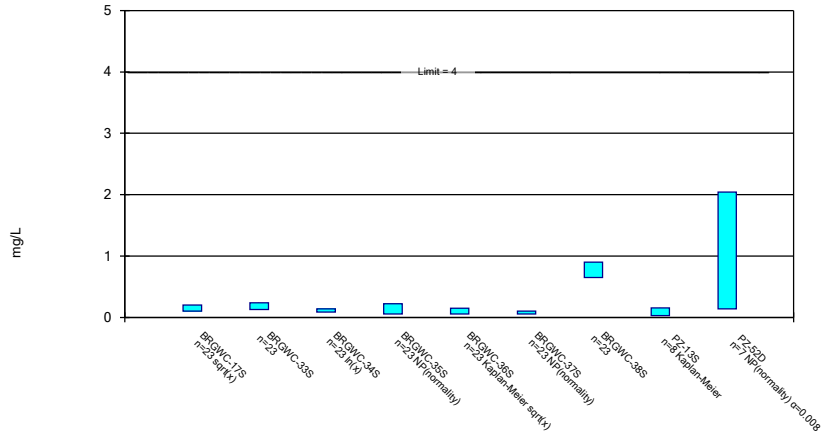


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

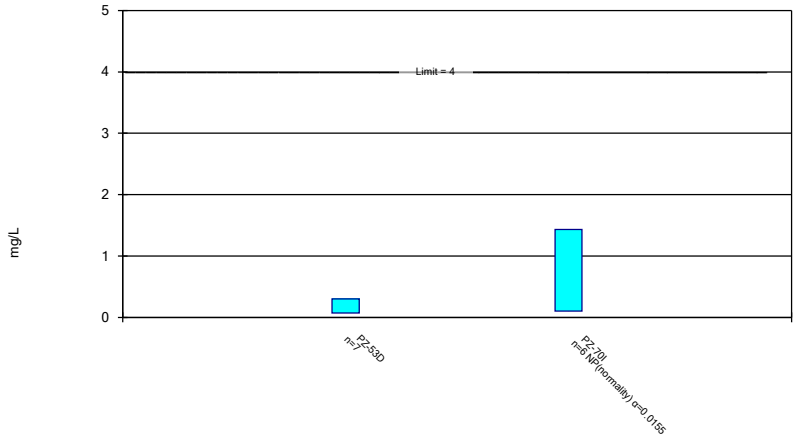


Constituent: Fluoride Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

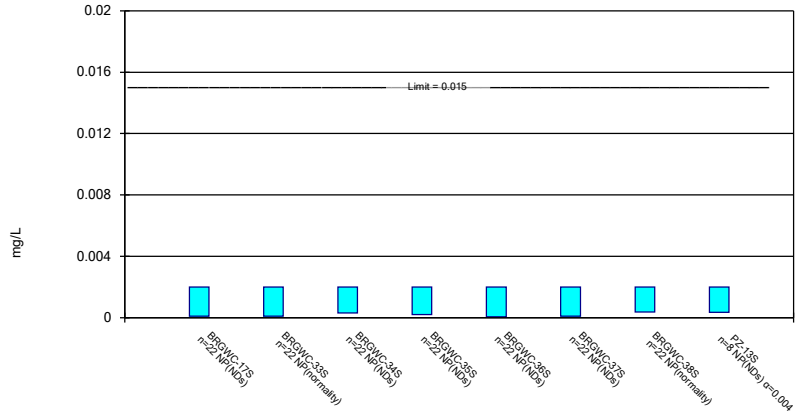


Constituent: Fluoride Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

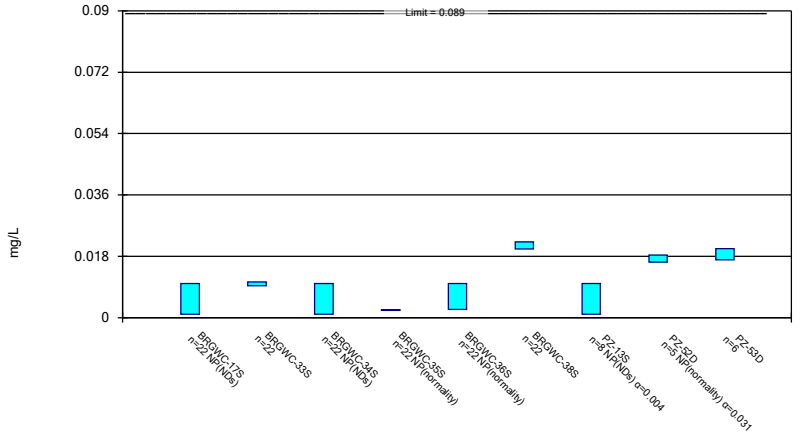


Constituent: Lead Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

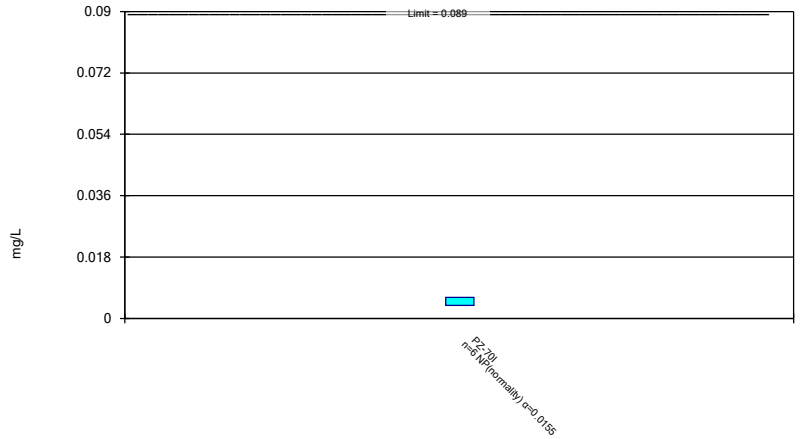


Constituent: Lithium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

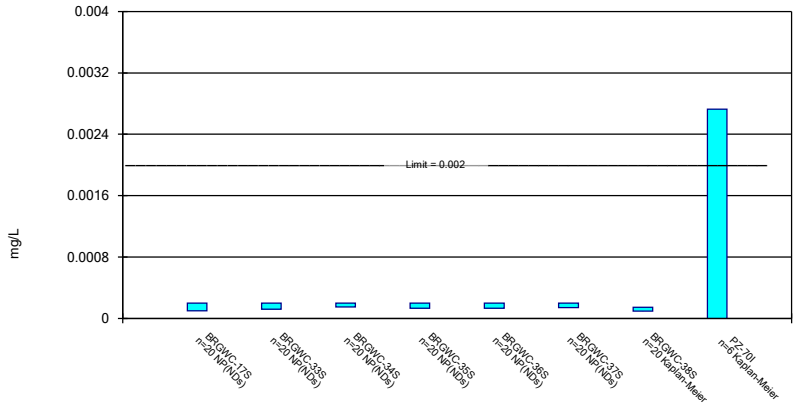


Constituent: Lithium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

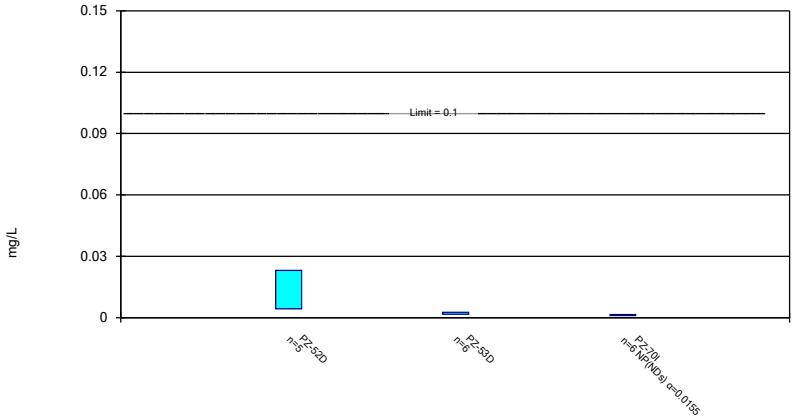


Constituent: Mercury Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

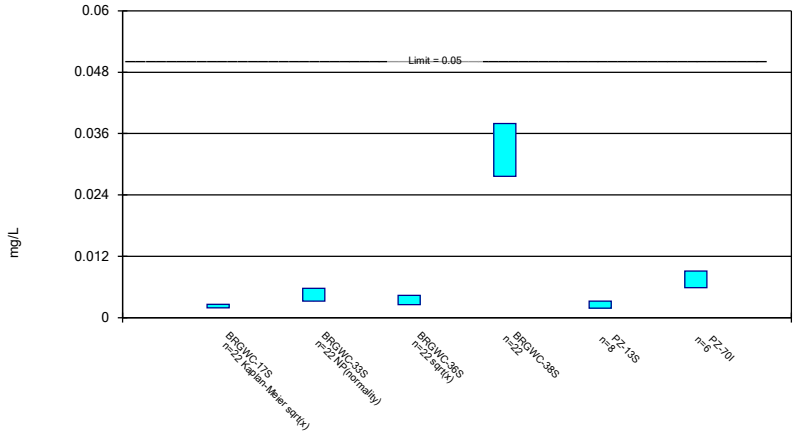


Constituent: Molybdenum Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

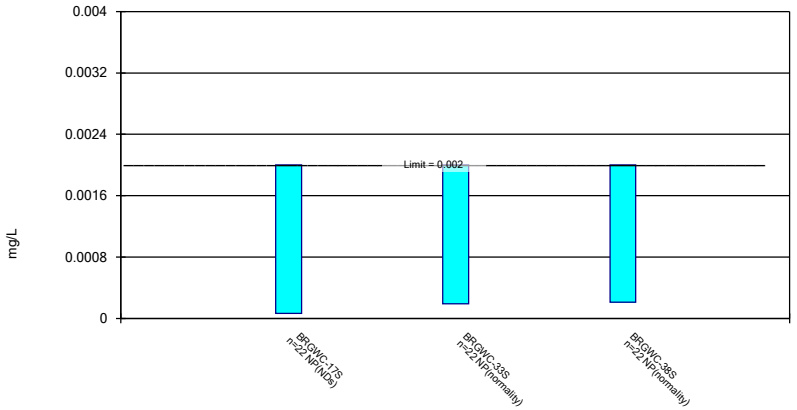


Constituent: Selenium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/21/2025 1:00 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-36S	BRGWC-37S	BRGWC-38S
9/7/2016	<0.003	<0.003		<0.003
11/17/2016	<0.003			
11/18/2016		0.0016 (J)		
11/21/2016				0.0009 (J)
2/22/2017	<0.003			
2/23/2017		<0.003	<0.003	<0.003
4/17/2017			0.0004 (J)	
5/15/2017			<0.003	
6/15/2017	0.0009 (J)	0.0006 (J)	0.0006 (J)	0.0007 (J)
9/28/2017	<0.003	<0.003	<0.003	<0.003
2/15/2018	<0.003	<0.003	<0.003	<0.003
6/27/2018	<0.003			
6/28/2018		<0.003	<0.003	<0.003
12/19/2018	<0.003	<0.003	<0.003	
12/20/2018				<0.003
8/28/2019	<0.003	0.00035 (J)	<0.003	
8/29/2019				<0.003
10/16/2019			<0.003	<0.003
12/3/2019	<0.003	0.00049 (J)		
3/3/2020	<0.003			
3/5/2020		<0.003	<0.003	<0.003
8/19/2020	<0.003	<0.003	<0.003	<0.003
9/16/2020	<0.003	<0.003	<0.003	
9/17/2020				<0.003
3/3/2021		<0.003	<0.003	
3/4/2021	<0.003			<0.003
9/22/2021	<0.003	<0.003		
9/23/2021			<0.003	<0.003
2/1/2022	<0.003	<0.003		<0.003
2/2/2022			<0.003	
8/23/2022			<0.003	<0.003
8/24/2022	<0.003	<0.003		
1/24/2023	<0.003			
1/25/2023		<0.003	<0.003	<0.003
8/22/2023			<0.003	
8/23/2023	<0.003	<0.003		<0.003
1/30/2024	<0.003			
1/31/2024		<0.003	<0.003	<0.003
8/27/2024			<0.003	<0.003
8/28/2024	<0.003	<0.003		
2/26/2025	<0.003	<0.003	<0.003	<0.003
Mean	0.002905	0.002593	0.002773	0.0028
Std. Dev.	0.0004477	0.0009101	0.0007363	0.0006481
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0009	0.0016	0.0006	0.0009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-70I
9/7/2016	<0.005	<0.005	<0.005	<0.005		0.0026 (J)			
11/17/2016	<0.005	<0.005	<0.005						
11/18/2016				<0.005					
11/21/2016						0.0034 (J)			
2/22/2017	<0.005	<0.005	<0.005						
2/23/2017				<0.005	<0.005	0.003 (J)			
4/17/2017					<0.005				
5/15/2017					<0.005				
6/14/2017		0.0006 (J)							
6/15/2017	0.0006 (J)		0.0006 (J)	0.0007 (J)	<0.005	0.005 (J)			
9/27/2017		<0.005							
9/28/2017	<0.005		<0.005	<0.005	<0.005	0.0046 (J)			
2/15/2018	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)			
6/27/2018	<0.005	<0.005	<0.005						
6/28/2018				0.00074 (J)	0.0011 (J)	0.0023 (J)			
12/18/2018		0.00091 (J)							
12/19/2018	<0.005		<0.005	<0.005	<0.005				
12/20/2018						0.00098 (J)			
1/15/2019							<0.005		
8/27/2019		<0.005							
8/28/2019	0.00073 (J)		0.00044 (J)	0.00045 (J)	0.00038 (J)				
8/29/2019						0.0013 (J)			
10/16/2019		0.00056 (J)	0.0004 (J)		0.00078 (J)	0.0024 (J)			
10/22/2019							<0.005		
12/3/2019	0.00058 (J)			0.001 (J)					
3/3/2020	0.0033 (J)								
3/5/2020		<0.005	<0.005	<0.005	0.00044 (J)	0.0011 (J)			
8/19/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021 (J)			
9/16/2020	<0.005	<0.005	<0.005	<0.005	<0.005				
9/17/2020						0.0015 (J)			
3/3/2021		<0.005		<0.005	<0.005				
3/4/2021	<0.005		<0.005			0.0029 (J)			
9/22/2021	<0.005	<0.005		<0.005					
9/23/2021			<0.005		<0.005	0.002 (J)			
2/1/2022	<0.005	<0.005	<0.005	<0.005		<0.005			
2/2/2022					<0.005				
8/23/2022		0.00262 (J)			<0.005	0.00337 (J)	<0.005		
8/24/2022	<0.005		<0.005	<0.005					
9/1/2022									<0.005
1/24/2023	<0.005	0.00201 (J)	<0.005						
1/25/2023				<0.005	0.003 (J)	0.00486 (J)		0.00368 (J)	
1/26/2023							0.00388 (J)		0.00366 (J)
8/22/2023		<0.005			<0.005		<0.005		
8/23/2023	<0.005		<0.005	<0.005		<0.005		<0.005	<0.005
1/30/2024	<0.005		<0.005				<0.005		
1/31/2024		0.00516		<0.005	<0.005	<0.005		<0.005	<0.005
8/27/2024					<0.005	<0.005	<0.005		
8/28/2024	<0.005	0.00577	<0.005	<0.005				<0.005	<0.005
2/26/2025	<0.005	0.00896	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.004328	0.00439	0.004384	0.004222	0.004123	0.003182	0.00486	0.004736	0.004777
Std. Dev.	0.001544	0.001934	0.001588	0.001691	0.001721	0.001499	0.000396	0.0005903	0.0005471
Upper Lim.	0.005	0.00516	0.005	0.005	0.005	0.002993	0.005	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D	PZ-70I
Lower Lim.	0.0033	0.00262	0.0006	0.001	0.003	0.001834	0.00388	0.00368	0.00366

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D
9/7/2016	0.0377	0.0214		0.101	0.0674		0.044		
9/8/2016			0.0415						
11/17/2016	0.0405	0.0211	0.04	0.0808					
11/18/2016					0.0546				
11/21/2016							0.0428 (J)		
2/22/2017	0.0392	0.0243	0.0415	0.0701					
2/23/2017					0.0489	0.0229	0.0338		
4/17/2017						0.0227			
5/15/2017						0.0227			
6/14/2017		0.0218	0.0341						
6/15/2017	0.0364			0.0518	0.0415	0.0218	0.0239		
9/27/2017		0.0219	0.0347						
9/28/2017	0.0408			0.047	0.0397	0.0222	0.0247		
2/15/2018	0.0396	0.0248	0.0346	0.0485	0.038	0.0243	0.0215		
6/27/2018	0.041	0.023	0.028	0.046					
6/28/2018					0.035	0.023	0.018		
12/18/2018		0.023	0.029						
12/19/2018	0.038			0.04	0.035	0.024			
12/20/2018							0.017		
1/15/2019								0.14	
8/27/2019		0.02							
8/28/2019	0.044		0.026	0.039	0.034	0.027			
8/29/2019							0.016		
10/16/2019		0.019	0.022	0.037		0.024	0.015		
10/22/2019								0.077	
12/3/2019	0.043				0.031				
3/3/2020	0.036								
3/5/2020		0.022	0.025	0.039	0.033	0.025	0.016		
8/19/2020	0.047	0.02	0.024	0.04	0.037	0.026	0.016		
9/16/2020	0.044	0.019	0.023	0.033	0.03	0.024			
9/17/2020							0.014		
3/3/2021		0.02	0.024		0.031	0.024			
3/4/2021	0.039			0.034			0.015		
9/22/2021	0.043	0.019	0.021		0.028				
9/23/2021				0.036		0.027	0.014		
2/1/2022	0.045	0.023	0.024	0.033	0.029		0.015		
2/2/2022						0.025			
8/23/2022		0.0409				0.026	0.0141	0.0562	
8/24/2022	0.0512		0.0249	0.0339	0.0296				
1/24/2023	0.0422	0.0368	0.0232	0.0291					
1/25/2023					0.0278	0.0247	0.018		0.0171
1/26/2023								0.0525	
8/22/2023		0.0357	0.0268			0.0266		0.0683	
8/23/2023	0.0445			0.0286	0.0243		0.0134		0.0163
1/30/2024	0.0522			0.0299				0.0499	
1/31/2024		0.0515	0.0261		0.0273	0.0256	0.016		0.0184
8/27/2024						0.027	0.0164	0.0543	
8/28/2024	0.0502	0.0511	0.0281	0.0267	0.0247				0.0156
2/26/2025	0.0508	0.0543	0.0329	0.0291	0.0267	0.0264	0.017	0.052	0.0163
Mean	0.04297	0.02789	0.02884	0.04334	0.03516	0.02463	0.02007	0.06878	0.01674
Std. Dev.	0.004841	0.01158	0.006371	0.0185	0.01042	0.001655	0.008875	0.03026	0.001069
Upper Lim.	0.04557	0.0357	0.03226	0.0489	0.03954	0.02552	0.0215	0.14	0.01853

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D
Lower Lim.	0.04037	0.02	0.02542	0.03371	0.02961	0.02374	0.015	0.0499	0.01495

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	PZ-53D	PZ-70I
8/23/2022	0.0547	
9/1/2022		0.0444
1/25/2023	0.0536	
1/26/2023		0.025
8/23/2023		0.0196
8/24/2023	0.0485	
1/31/2024	0.0517	0.0207
8/27/2024	0.0535	
8/28/2024		0.0198
2/26/2025	0.0523	0.0202
Mean	0.05238	0.02495
Std. Dev.	0.002175	0.009737
Upper Lim.	0.05537	0.0444
Lower Lim.	0.0494	0.0196

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-70I
9/7/2016	0.0019 (J)		9E-05 (J)	<0.0005	0.0079		
9/8/2016		0.0001 (J)					
9/23/2016					0.0096		
11/17/2016	0.002 (J)	0.0001 (J)	0.0001 (J)				
11/18/2016				0.0001 (J)			
11/21/2016					0.0092		
2/22/2017	0.0022 (J)	0.0002 (J)	0.0001 (J)				
2/23/2017				0.0001 (J)	0.01		
6/14/2017	0.0019 (J)	<0.0005					
6/15/2017			0.0001 (J)	9E-05 (J)	0.0104		
9/27/2017	0.0017 (J)	0.0001 (J)					
9/28/2017			0.0001 (J)	0.0001 (J)	0.0098		
2/15/2018	<0.003	<0.0005	<0.0005	<0.0005	0.011 (J)		
6/27/2018	0.002 (J)	0.00013 (J)	0.00015 (J)				
6/28/2018				8.1E-05 (J)	0.0085		
12/18/2018	0.0021 (J)	0.00012 (J)					
12/19/2018			0.00014 (J)	8.6E-05 (J)			
12/20/2018					0.0092		
1/15/2019						0.0005 (J)	
8/27/2019	0.0019 (J)						
8/28/2019		0.00014 (J)	0.00016 (J)	0.00011 (J)			
8/29/2019					0.0088		
10/16/2019	0.0018 (J)	0.00014 (J)	0.00015 (J)		0.0079		
10/17/2019				<0.0005			
10/22/2019						0.0004 (J)	
12/3/2019				9.7E-05 (J)			
3/5/2020	0.0018 (J)	0.00015 (J)	0.00015 (J)	9.2E-05 (J)	0.0082		
8/19/2020	0.0014 (J)	0.00015 (J)	0.00015 (J)	0.00011 (J)	0.0079		
9/16/2020	0.0015 (J)	0.00014 (J)	0.00014 (J)	8E-05 (J)			
9/17/2020					0.0073		
3/3/2021	0.0013	0.00015 (J)		7.9E-05 (J)			
3/4/2021			0.00012 (J)		0.0077		
9/22/2021	0.0012	0.00015 (J)		8.4E-05 (J)			
9/23/2021			0.00016 (J)		0.0071		
2/1/2022	0.0013	0.00015 (J)	0.00015 (J)	8.7E-05 (J)	0.0072		
8/23/2022	0.00241				0.00854	0.000331 (J)	
8/24/2022		<0.0005	0.00021 (J)	<0.0005			
9/1/2022							<0.0005
1/24/2023	0.00235	<0.0005	<0.0005				
1/25/2023				<0.0005	0.0078		
1/26/2023						0.000422 (J)	0.000217 (J)
8/22/2023	0.0019	<0.0005				0.000259 (J)	
8/23/2023			0.0002 (J)	<0.0005	0.0068		0.000325 (J)
1/30/2024			<0.0005			0.000388 (J)	
1/31/2024	0.00269	0.000202 (J)		<0.0005	0.00591		0.00034 (J)
8/27/2024					0.00644	0.000346 (J)	
8/28/2024	0.00209	0.000205 (J)	<0.0005	<0.0005			0.000344 (J)
2/26/2025	0.00181	<0.0005	<0.0005	<0.0005	0.00515	0.000457 (J)	0.00037 (J)
Mean	0.001852	0.0002421	0.0002214	0.000252	0.008189	0.0003879	0.0003493
Std. Dev.	0.0003824	0.0001641	0.0001576	0.0002035	0.001451	7.584E-05	9.094E-05
Upper Lim.	0.002058	0.000205	0.00021	0.0005	0.008948	0.0004683	0.0003922
Lower Lim.	0.001647	0.00013	0.00012	8.7E-05	0.00743	0.0003075	0.0002462

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-33S	BRGWC-34S	BRGWC-36S	BRGWC-38S	PZ-13S
9/7/2016	0.0005 (J)		8E-05 (J)	0.0004 (J)	
9/8/2016		<0.001			
11/17/2016	0.0005 (J)	0.0009 (J)			
11/18/2016			<0.001		
11/21/2016				0.0005 (J)	
2/22/2017	0.0006 (J)	0.0005 (J)			
2/23/2017			0.0001 (J)	0.0007 (J)	
6/14/2017	0.0004 (J)	0.0004 (J)			
6/15/2017			<0.001	0.0006 (J)	
9/27/2017	0.0004 (J)	0.0007 (J)			
9/28/2017			<0.001	0.0007 (J)	
2/15/2018	<0.001	<0.001	<0.001	0.00069 (J)	
6/27/2018	0.00038 (J)	0.00017 (J)			
6/28/2018			<0.001	0.00056 (J)	
12/18/2018	0.00046 (J)	0.00023 (J)			
12/19/2018			0.00011 (J)		
12/20/2018				0.00062 (J)	
1/15/2019					0.00011 (J)
8/27/2019	0.00032 (J)				
8/28/2019		0.00025 (J)	<0.001		
8/29/2019				0.00053 (J)	
10/16/2019	0.00039 (J)	0.0004 (J)		0.00057 (J)	
10/17/2019			<0.001		
10/22/2019					<0.001
12/3/2019			<0.001		
3/5/2020	0.00038 (J)	0.00018 (J)	<0.001	0.00059 (J)	
8/19/2020	0.00029 (J)	0.00018 (J)	<0.001	0.00056 (J)	
9/16/2020	0.00032 (J)	0.00017 (J)	<0.001		
9/17/2020				0.0005 (J)	
3/3/2021	0.00022 (J)	0.00015 (J)	<0.001		
3/4/2021				0.00042 (J)	
9/22/2021	0.00019 (J)	0.00033 (J)	<0.001		
9/23/2021				0.00048 (J)	
2/1/2022	0.00023 (J)	0.00012 (J)	<0.001	0.00058	
8/23/2022	0.000509 (J)			0.000459 (J)	<0.001
8/24/2022		0.000517 (J)	<0.001		
1/24/2023	0.000482 (J)	<0.001			
1/25/2023			<0.001	0.00043 (J)	
1/26/2023					<0.001
8/22/2023	0.000533 (J)	<0.001			<0.001
8/23/2023			<0.001	0.00041 (J)	
1/30/2024					<0.001
1/31/2024	0.000792 (J)	<0.001	<0.001	0.000342 (J)	
8/27/2024				0.000341 (J)	<0.001
8/28/2024	0.000807 (J)	<0.001	<0.001		
2/26/2025	0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.0004638	0.0005544	0.0008822	0.0005219	0.0008888
Std. Dev.	0.0001989	0.0003625	0.0003111	0.0001067	0.0003147
Upper Lim.	0.0005705	0.001	0.001	0.0005792	0.001
Lower Lim.	0.000357	0.00018	0.00011	0.0004646	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	0.01 (J)	<0.01	0.0019 (J)	0.0073 (J)		0.0014 (J)	
11/17/2016	0.0185	<0.01	0.0024 (J)				
11/18/2016				0.008 (J)			
11/21/2016						0.003 (J)	
2/22/2017	0.0122	<0.01	0.004 (J)				
2/23/2017				0.0086 (J)	0.001 (J)	0.0028 (J)	
4/17/2017					0.0018 (J)		
5/15/2017					0.0014 (J)		
6/14/2017		<0.01					
6/15/2017	0.0117		0.0033 (J)	0.0082 (J)	0.0013 (J)	0.0038 (J)	
9/27/2017		<0.01					
9/28/2017	0.0114		0.0052 (J)	0.0083 (J)	0.0014 (J)	0.0037 (J)	
2/15/2018	0.011	<0.01	<0.01	0.0086 (J)	<0.01	0.0044 (J)	
6/27/2018	0.0098 (J)	<0.01	0.0062 (J)				
6/28/2018				0.0076 (J)	<0.01	0.0041 (J)	
12/18/2018		<0.01					
12/19/2018	0.0095 (J)		0.0073 (J)	0.0085 (J)	<0.01		
12/20/2018						0.0041 (J)	
1/15/2019							0.025
8/27/2019		<0.01					
8/28/2019	0.013		0.0071 (J)	0.0078 (J)	0.0017 (J)		
8/29/2019						0.0044 (J)	
10/16/2019		0.00049 (J)	0.0064 (J)		0.0014 (J)	0.0038 (J)	
10/22/2019							0.02
12/3/2019	0.011			0.007 (J)			
3/3/2020	0.0081 (J)						
3/5/2020		<0.01	0.0076 (J)	0.0087 (J)	0.0016 (J)	0.0038 (J)	
8/19/2020	0.012	<0.01	0.0073 (J)	0.0094 (J)	0.0017 (J)	0.0043 (J)	
9/16/2020	0.012	<0.01	0.0058 (J)	0.0064 (J)	0.0018 (J)		
9/17/2020						0.0042 (J)	
3/3/2021		<0.01		0.0067	0.0014 (J)		
3/4/2021	0.01		0.0053			0.004 (J)	
9/22/2021	0.0091	<0.01		0.0065			
9/23/2021			0.0065		0.0016 (J)	0.004 (J)	
2/1/2022	0.013	<0.01	0.0056	0.0068		0.0035 (J)	
2/2/2022					0.0015 (J)		
8/23/2022		<0.01			<0.01	0.00398 (J)	0.0128
8/24/2022	0.0127		0.00752 (J)	0.00713 (J)			
1/24/2023	0.00886 (J)	<0.01	0.00524 (J)				
1/25/2023				0.00682 (J)	<0.01	0.00362 (J)	
1/26/2023							0.0153
8/22/2023		<0.01			<0.01		0.0111
8/23/2023	0.0115		0.00592 (J)	0.00649 (J)		0.00338 (J)	
1/30/2024	0.011		0.0059 (J)				0.0134
1/31/2024		<0.01		0.00648 (J)	<0.01	0.00305 (J)	
8/27/2024					<0.01	0.00328 (J)	0.0137
8/28/2024	0.0101	<0.01	0.00491 (J)	0.00617 (J)			
2/26/2025	0.00685 (J)	<0.01	0.00553 (J)	0.00674 (J)	<0.01	<0.01	0.0132
Mean	0.01106	0.009568	0.005542	0.007465	0.004982	0.00371	0.01556
Std. Dev.	0.002307	0.002028	0.001554	0.0009401	0.004277	0.0007311	0.004631
Upper Lim.	0.0123	0.01	0.006376	0.00797	0.01	0.004102	0.02013
Lower Lim.	0.009821	0.00049	0.004708	0.00696	0.0014	0.003317	0.01117

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D	PZ-70I
9/7/2016	0.0612		0.0023 (J)	0.236				
9/8/2016		0.0029 (J)						
11/17/2016	0.0551	0.0028 (J)	0.0012 (J)					
11/21/2016				0.298				
2/22/2017	0.0567	0.0041 (J)	0.0008 (J)					
2/23/2017				0.277				
6/14/2017	0.0557	0.0036 (J)						
6/15/2017			0.0004 (J)	0.262				
9/27/2017	0.049	0.0028 (J)						
9/28/2017			0.0003 (J)	0.279				
2/15/2018	0.0536	<0.01	<0.001	0.279				
6/27/2018	0.054	0.0041 (J)	<0.001					
6/28/2018				0.23				
12/18/2018	0.049	0.0032 (J)						
12/19/2018			<0.001					
12/20/2018				0.25				
1/15/2019					<0.001			
8/27/2019	0.045							
8/28/2019		0.0037 (J)	<0.001					
8/29/2019				0.21				
10/16/2019	0.042	0.0043 (J)	<0.001	0.21				
10/22/2019					0.00037 (J)			
3/5/2020	0.037	0.0031 (J)	<0.001	0.22				
6/4/2020							0.0012 (J)	
6/19/2020						0.00034 (J)		
8/19/2020	0.036	0.0041 (J)	<0.001	0.22				
9/16/2020	0.034	0.0042 (J)	<0.001					
9/17/2020				0.2				
3/3/2021	0.028	0.0046 (J)						
3/4/2021			<0.001	0.2				
9/22/2021	0.024	0.0075						
9/23/2021			<0.001	0.17				
2/1/2022	0.027	0.0044 (J)	<0.001	0.18				
8/23/2022	0.0639			0.173	<0.001		<0.001	
8/24/2022		0.00438	<0.001					
9/1/2022						0.0015		0.0056
1/24/2023	0.0582	0.00351	<0.001					
1/25/2023				0.158		0.00249	<0.001	
1/26/2023					<0.001			0.000682 (J)
8/22/2023	0.0659	0.00384			<0.001			
8/23/2023			<0.001	0.139		0.000307 (J)		0.000784 (J)
8/24/2023							<0.001	
1/30/2024			<0.001		<0.001			
1/31/2024	0.0988	0.00751		0.134		0.00104	<0.001	0.000866 (J)
8/27/2024				0.119	<0.001		<0.001	
8/28/2024	0.104	0.00494	<0.001			0.000337 (J)		0.000686 (J)
2/26/2025	0.106	0.00592	<0.001	0.109	<0.001	0.000373 (J)	<0.001	0.000507 (J)
Mean	0.05473	0.004295	0.001	0.207	0.0009213	0.0009124	0.001029	0.001521
Std. Dev.	0.023	0.001293	0.0003532	0.05486	0.0002227	0.0008333	7.559E-05	0.002002
Upper Lim.	0.06708	0.004885	0.0012	0.2364	0.001	0.00249	0.0012	0.0056
Lower Lim.	0.04238	0.003591	0.0008	0.1775	0.00037	0.000307	0.001	0.000507

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D
9/7/2016	0.541	0.706 (U)		1.13	0.998 (U)		3.35		
9/8/2016			2.03						
11/17/2016	0.145 (U)	1.02 (U)	0.613	0.729 (U)					
11/18/2016					1.22 (U)				
11/21/2016							2.94		
2/22/2017	0.0213 (U)	0.482 (U)	1.01 (U)	0.293 (U)					
2/23/2017					0.554 (U)	0.567 (U)	1.92		
4/17/2017						0.335 (U)			
5/15/2017						0.261 (U)			
6/14/2017		0.723 (U)	0.801 (U)						
6/15/2017	0.41 (U)			1.09	0.77 (U)	0.188 (U)	3.6		
9/27/2017		1.5	1.44						
9/28/2017	0.496 (U)			1.02 (U)	1.07 (U)	0.627 (U)	3.3		
2/15/2018	0.672 (U)	1.14 (U)	0.668 (U)	0.742 (U)	0.751 (U)	0.869 (U)	2.31		
6/27/2018	0.692 (U)	1.3 (U)	1.06 (U)	0.739 (U)					
6/28/2018					0.392 (U)	0.336 (U)	1.75		
12/18/2018		1.64	1.22						
12/19/2018	0.325 (U)			0.465 (U)	0.693 (U)	0.454 (U)			
12/20/2018							2.8		
1/15/2019								0.602	
8/27/2019		1.38							
8/28/2019	0.24 (U)		0.811 (U)	0.995 (U)	0.866 (U)	0.809 (U)			
8/29/2019							3.68		
10/16/2019		1.16 (U)	0.561 (U)	1.69		0.815 (U)	2.66		
10/22/2019								0.631 (U)	
12/18/2019	1.16 (U)				1.91				
3/3/2020	0.756 (U)								
3/5/2020		0.683 (U)	0.792 (U)	0.858 (U)	1.3	0.791 (U)	2.21		
8/19/2020	0.985 (U)	1.14 (U)	1.21 (U)	0.162 (U)	1.4	0.582 (U)	3.17		
9/16/2020	0.478 (U)	0.195 (U)	0.72 (U)	1.25 (U)	1.17 (U)	0.844 (U)			
9/17/2020							2.92		
3/3/2021		0.708 (U)	1.12		0.307 (U)	1.12			
3/4/2021	0.38 (U)			0.461 (U)			1.99		
9/22/2021	0.734 (U)	0.382 (U)	0.91 (U)		0.808 (U)				
9/23/2021				0.394 (U)		0.078 (U)	1.4		
2/1/2022	0.503 (U)	0.583 (U)	0.535 (U)	0.672 (U)	1.61 (U)		7.64		
2/2/2022						0.654 (U)			
8/23/2022		1.94				2.37 (U)	3.12	1.83 (U)	
8/24/2022	0.152 (U)		1.86	3.1	1.38 (U)				
1/24/2023	0.728 (U)	3.31 (U)	2.14 (U)	3.34					
1/25/2023					4.86	1.67 (U)	3.79		
1/26/2023								4.77	
2/2/2023									5.39
8/22/2023		0.521 (U)	1.06 (U)			0.578 (U)		0.823 (U)	
8/23/2023	1.92 (U)			3.33	3.87		5.98		1.14 (U)
1/30/2024	1.36			2.4				2.01	
1/31/2024		2.66	1.31 (U)		2.31	1.74	2.98		2.54
8/27/2024						2.01 (U)	0.945 (U)	4.31	
8/28/2024	1.78 (U)	2.68	3.15	1.36 (U)	2.45				5.34
2/26/2025	5.67	4.05	4.95	3.29	4.5	5.37	3.64	3.29	3.82
Mean	0.9158	1.359	1.362	1.341	1.6	1.049	3.095	2.283	3.646
Std. Dev.	1.172	1.006	1.017	1.05	1.278	1.137	1.449	1.659	1.833

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D
Upper Lim.	1.105	1.726	1.544	1.717	2.038	1.359	3.707	4.042	6.718
Lower Lim.	0.3548	0.7744	0.8442	0.7169	0.8893	0.4768	2.285	0.5244	0.5739

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	PZ-53D	PZ-70I
8/23/2022	3.04	
9/1/2022		1.57 (U)
1/25/2023	2.1 (U)	
1/26/2023		1.81 (U)
8/23/2023		4.35
8/24/2023	3.67	
1/31/2024	3.57	1.55
8/27/2024	3.22	
8/28/2024		1.25 (U)
2/26/2025	4.25	2.41
Mean	3.308	2.157
Std. Dev.	0.7247	1.143
Upper Lim.	4.304	3.667
Lower Lim.	2.313	0.9054

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D
9/7/2016	0.22 (J)	0.19 (J)		0.34	0.18 (J)		0.66		
9/8/2016			0.17 (J)						
11/17/2016	0.33	0.26 (J)	0.12 (J)	0.24 (J)					
11/18/2016					0.04 (J)				
11/21/2016							0.95		
2/22/2017	0.11 (J)	0.21 (J)	0.17 (J)	0.09 (J)					
2/23/2017					0.07 (J)	0.1 (J)	0.75		
4/17/2017						0.08 (J)			
5/15/2017						0.02 (J)			
6/14/2017		0.18 (J)	0.1 (J)						
6/15/2017	0.05 (J)			0.03 (J)	0.01 (J)	0.03 (J)	0.77		
9/27/2017		0.42	0.4						
9/28/2017	0.05 (J)			<0.1	<0.1	<0.1	0.8		
2/15/2018	<0.3	0.42	<0.3	<0.1	<0.1	<0.1	0.82		
6/27/2018	0.093 (J)	0.32	0.21 (J)	0.22 (J)					
6/28/2018					0.51	<0.1	1.5		
12/18/2018		0.28 (J)	0.12 (J)						
12/19/2018	0.16 (J)			0.11 (J)	<0.1	0.094 (J)			
12/20/2018							0.68		
1/15/2019								0.06 (J)	
3/19/2019	0.1 (J)				<0.1				
3/20/2019		0.14 (J)	0.074 (J)	0.088 (J)		0.062 (J)	0.95		
8/27/2019		0.11 (J)							
8/28/2019	0.085 (J)		0.057 (J)	0.056 (J)	<0.1	<0.1			
8/29/2019							0.9		
10/16/2019		0.17 (J)	0.13 (J)	0.08 (J)		0.059 (J)	0.61		
10/22/2019								<0.1	
12/3/2019	0.2 (J)				0.15 (J)				
3/3/2020	0.093 (J)								
3/5/2020		0.088 (J)	0.072 (J)	0.067 (J)	<0.1	0.05 (J)	0.92		
6/19/2020									0.59
8/19/2020	0.1	0.11	0.074 (J)	0.06 (J)	0.051 (J)	0.055 (J)	0.95		
9/16/2020	0.1	0.085 (J)	0.077 (J)	0.062 (J)	<0.1	<0.1			
9/17/2020							0.68		
3/3/2021		0.069 (J)	0.071 (J)		<0.1	<0.1			
3/4/2021	0.096 (J)			0.076 (J)			0.83		
9/22/2021	0.1	0.068 (J)	0.1		0.054 (J)				
9/23/2021				0.073 (J)		<0.1	0.85		
2/1/2022	0.079 (J)	0.053 (J)	0.06 (J)	0.055 (J)	<0.1		0.95		
2/2/2022						<0.1			
8/23/2022		0.187				0.105	0.609	0.128	
8/24/2022	0.274		0.14	<0.1	0.194				
9/1/2022									0.14
1/24/2023	0.216	0.193	0.122	0.239					
1/25/2023					0.183	0.114	0.708		
1/26/2023								<0.1	1.93
8/22/2023		0.123	0.0816 (J)			0.0445 (J)		<0.1	
8/23/2023	0.484			0.347	0.301		0.748		1.94
1/30/2024	0.34			0.263				0.222	
1/31/2024		0.194	0.101		0.144	0.109	0.493		1.9
8/27/2024						0.0777 (J)	0.366	0.0701 (J)	
8/28/2024	0.218	0.204	0.11	0.0609 (J)	0.0861 (J)				2.04

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S	PZ-52D
2/26/2025	0.0663 (J)	0.143	0.1	0.0472 (J)	0.0348 (J)	0.0523 (J)	0.336	0.0404 (J)	2.03
Mean	0.1615	0.1833	0.1222	0.1197	0.1264	0.08054	0.7752	0.1026	1.51
Std. Dev.	0.11	0.1017	0.07208	0.09918	0.1046	0.02766	0.2362	0.05563	0.7946
Upper Lim.	0.2009	0.2365	0.1382	0.22	0.1488	0.1	0.8988	0.1541	2.04
Lower Lim.	0.1008	0.1302	0.08651	0.055	0.05575	0.055	0.6517	0.02709	0.14

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	PZ-53D	PZ-70I
6/4/2020	0.19	
8/23/2022	0.164	
9/1/2022		1.43
1/25/2023	0.282	
1/26/2023		<0.1
8/23/2023		0.229
8/24/2023	0.334	
1/31/2024	0.153	0.108
8/27/2024	0.103	
8/28/2024		<0.1
2/26/2025	0.0608 (J)	<0.1
Mean	0.1838	0.3445
Std. Dev.	0.09595	0.5342
Upper Lim.	0.2978	1.43
Lower Lim.	0.06986	0.1

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
9/7/2016	<0.002	0.0002 (J)		0.0001 (J)	<0.002		0.0004 (J)	
9/8/2016			<0.002					
11/17/2016	0.0001 (J)	0.0002 (J)	0.0001 (J)	0.0002 (J)				
11/18/2016					<0.002			
11/21/2016							0.0005 (J)	
2/22/2017	<0.002	0.0001 (J)	0.0003 (J)	0.0001 (J)				
2/23/2017					<0.002	<0.002	0.0005 (J)	
4/17/2017						0.0001 (J)		
5/15/2017						<0.002		
6/14/2017		9E-05 (J)	<0.002					
6/15/2017	<0.002			<0.002	<0.002	<0.002	0.0004 (J)	
9/27/2017		7E-05 (J)	9E-05 (J)					
9/28/2017	<0.002			<0.002	<0.002	0.0001 (J)	0.0004 (J)	
2/15/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00047 (J)	
6/27/2018	<0.002	<0.002	<0.002	<0.002				
6/28/2018					<0.002	<0.002	0.00036 (J)	
12/18/2018		<0.002	<0.002					
12/19/2018	<0.002			<0.002	<0.002	<0.002		
12/20/2018							0.00039 (J)	
1/15/2019								<0.002
8/27/2019		0.00013 (J)						
8/28/2019	<0.002		<0.002	<0.002	<0.002	<0.002		
8/29/2019							0.00035 (J)	
10/16/2019		8.8E-05 (J)	<0.002	<0.002		<0.002	0.00035 (J)	
10/22/2019								0.00035 (J)
12/3/2019	<0.002				<0.002			
3/3/2020	<0.002							
3/5/2020		8.7E-05 (J)	<0.002	<0.002	<0.002	<0.002	0.00041 (J)	
8/19/2020	<0.002	6E-05 (J)	<0.002	<0.002	4.7E-05 (J)	<0.002	0.00031 (J)	
9/16/2020	5.4E-05 (J)	6.3E-05 (J)	<0.002	0.00012 (J)	<0.002	<0.002		
9/17/2020							0.00032 (J)	
3/3/2021		5.8E-05 (J)	<0.002		<0.002	<0.002		
3/4/2021	<0.002			<0.002			0.00034 (J)	
9/22/2021	<0.002	<0.002	<0.002		<0.002			
9/23/2021				<0.002		<0.002	<0.002	
2/1/2022	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
2/2/2022						<0.002		
8/23/2022		<0.002				<0.002	<0.002	<0.002
8/24/2022	<0.002		<0.002	<0.002	<0.002			
1/24/2023	<0.002	<0.002	<0.002	<0.002				
1/25/2023					<0.002	<0.002	<0.002	
1/26/2023								<0.002
8/22/2023		<0.002	<0.002			<0.002		<0.002
8/23/2023	<0.002			<0.002	<0.002		<0.002	
1/30/2024	<0.002			<0.002				<0.002
1/31/2024		<0.002	<0.002		<0.002	<0.002	<0.002	
8/27/2024						<0.002	<0.002	<0.002
8/28/2024	<0.002	<0.002	<0.002	<0.002	<0.002			
2/26/2025	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Mean	0.001825	0.001052	0.00175	0.00166	0.001911	0.001827	0.0009773	0.001794
Std. Dev.	0.0005659	0.0009709	0.0006462	0.0007384	0.0004164	0.0005591	0.0007928	0.0005834
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals
Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-13S
Lower Lim.	0.0001	8.8E-05	0.0003	0.0002	4.7E-05	0.0001	0.00036	0.00035

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-52D	PZ-53D
9/7/2016	<0.01	0.0092 (J)		0.0021 (J)	0.0024 (J)	0.0193 (J)			
9/8/2016			<0.01						
11/17/2016	<0.01	0.0097 (J)	<0.01	0.0022 (J)					
11/18/2016					0.0026 (J)				
11/21/2016						0.0223 (J)			
2/22/2017	<0.01	0.0106 (J)	<0.01	0.0023 (J)					
2/23/2017					0.0026 (J)	0.0229 (J)			
6/14/2017		0.0097 (J)	<0.01						
6/15/2017	<0.01			0.0023 (J)	0.0026 (J)	0.0227 (J)			
9/27/2017		0.0099 (J)	<0.01						
9/28/2017	<0.01			0.0021 (J)	0.0025 (J)	0.023 (J)			
2/15/2018	<0.01	0.0106 (J)	<0.01	0.0021 (J)	<0.01	0.0254 (J)			
6/27/2018	<0.01	0.01 (J)	<0.01	0.0021 (J)					
6/28/2018					0.0022 (J)	0.021 (J)			
12/18/2018		0.011 (J)	<0.01						
12/19/2018	<0.01			0.0021 (J)	0.0026 (J)				
12/20/2018						0.022 (J)			
1/15/2019							0.0017 (J)		
8/27/2019		0.01 (J)							
8/28/2019	0.00097 (J)		0.0009 (J)	0.0021 (J)	0.0025 (J)				
8/29/2019						0.021 (J)			
10/16/2019		0.0098 (J)	0.00078 (J)	0.0022 (J)		0.02 (J)			
10/22/2019							0.001 (J)		
12/3/2019	0.001 (J)				0.0024 (J)				
3/3/2020	<0.01								
3/5/2020		0.011 (J)	0.00089 (J)	0.0021 (J)	0.0025 (J)	0.021 (J)			
8/19/2020	0.001 (J)	0.009 (J)	0.00082 (J)	0.0021 (J)	0.0024 (J)	0.021 (J)			
9/16/2020	0.00096 (J)	0.0089 (J)	<0.01	0.002 (J)	0.0022 (J)				
9/17/2020						0.02 (J)			
3/3/2021		0.0085 (J)	0.00096 (J)		0.0024 (J)				
3/4/2021	0.00086 (J)			0.0021 (J)		0.021 (J)			
9/22/2021	0.0011 (J)	0.008 (J)	<0.01		0.0026 (J)				
9/23/2021				0.0022 (J)		0.019 (J)			
2/1/2022	0.00096 (J)	0.0083 (J)	0.00085 (J)	0.0021 (J)	0.0023 (J)	0.02 (J)			
8/23/2022		0.0109				0.0214	<0.01		0.0171
8/24/2022	<0.01		<0.01	<0.01	<0.01				
1/24/2023	<0.01	0.0115	<0.01	<0.01					
1/25/2023					<0.01	0.0256		0.0165	0.0207
1/26/2023							<0.01		
8/22/2023		0.00967 (J)	<0.01				<0.01		
8/23/2023	<0.01			<0.01	<0.01	0.0195		0.0182	
8/24/2023									0.0185
1/30/2024	<0.01			<0.01			<0.01		
1/31/2024		0.0117	<0.01		<0.01	0.0201		0.0184	0.0182
8/27/2024						0.02	<0.01		0.019
8/28/2024	<0.01	0.0102	<0.01	<0.01	<0.01			0.0163	
2/26/2025	<0.01	0.0102	<0.01	<0.01	<0.01	0.0178	<0.01	0.0182	0.0182
Mean	0.00713	0.009926	0.007509	0.004282	0.004855	0.02118	0.007837	0.01752	0.01862
Std. Dev.	0.004301	0.000999	0.004163	0.003585	0.0036	0.001919	0.004009	0.001028	0.001196
Upper Lim.	0.01	0.01046	0.01	0.0023	0.01	0.02221	0.01	0.0184	0.02026
Lower Lim.	0.001	0.00939	0.00096	0.0021	0.0024	0.02015	0.001	0.0163	0.01697

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	PZ-70I
9/1/2022	0.00615 (J)
1/26/2023	0.00381 (J)
8/23/2023	0.00385 (J)
1/31/2024	0.00385 (J)
8/28/2024	0.00382 (J)
2/26/2025	0.00401 (J)
Mean	0.004248
Std. Dev.	0.0009345
Upper Lim.	0.00615
Lower Lim.	0.00381

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-34S	BRGWC-35S	BRGWC-36S	BRGWC-37S	BRGWC-38S	PZ-70I
9/7/2016	<0.0002	<0.0002		<0.0002	<0.0002		7E-05 (J)	
9/8/2016			<0.0002					
11/17/2016	<0.0002	<0.0002	<0.0002	<0.0002				
11/18/2016					<0.0002			
11/21/2016							0.00012 (J)	
2/22/2017	<0.0002	<0.0002	<0.0002	<0.0002				
2/23/2017					<0.0002	<0.0002	7E-05 (J)	
4/17/2017						<0.0002		
5/15/2017						<0.0002		
6/14/2017		7E-05 (J)	7E-05 (J)					
6/15/2017	6E-05 (J)			7E-05 (J)	7E-05 (J)	6E-05 (J)	0.00016 (J)	
9/27/2017		4E-05 (J)	4E-05 (J)					
9/28/2017	<0.0002			<0.0002	<0.0002	<0.0002	0.00011 (J)	
2/15/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00015 (J)	
6/27/2018	<0.0002	<0.0002	<0.0002	<0.0002				
6/28/2018					<0.0002	<0.0002	0.00017 (J)	
12/18/2018		<0.0002	<0.0002					
12/19/2018	<0.0002			<0.0002	<0.0002	<0.0002		
12/20/2018							0.00017 (J)	
8/27/2019		<0.0002						
8/28/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
8/29/2019							0.00018 (J)	
8/19/2020	8.4E-05 (J)	<0.0002	0.00012 (J)	0.00013 (J)	0.00013 (J)	0.00014 (J)	0.00018 (J)	
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/17/2020							0.00011 (J)	
3/3/2021		<0.0002	<0.0002		<0.0002	<0.0002		
3/4/2021	<0.0002			<0.0002			8.5E-05 (J)	
9/22/2021	0.0001 (J)	0.00012 (J)	0.00015 (J)		0.0001 (J)			
9/23/2021				0.00011 (J)		0.00011 (J)	0.00022	
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
2/2/2022						<0.0002		
8/23/2022		<0.0002				<0.0002	0.000117 (J)	
8/24/2022	<0.0002		<0.0002	<0.0002	<0.0002			
9/1/2022								<0.0002
1/24/2023	<0.0002	<0.0002	<0.0002	<0.0002				
1/25/2023					<0.0002	<0.0002	<0.0002	
1/26/2023								<0.0002
8/22/2023		<0.0002	<0.0002			<0.0002		
8/23/2023	<0.0002			<0.0002	<0.0002		<0.0002	0.00322
1/30/2024	<0.0002			<0.0002				
1/31/2024		<0.0002	<0.0002		<0.0002	<0.0002	8.5E-05 (J)	0.00149
8/27/2024						<0.0002	<0.0002	
8/28/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			0.00101
2/26/2025	<0.0002	<0.0002	0.000131 (J)	<0.0002	<0.0002	<0.0002	<0.0002	0.00173
Mean	0.0001822	0.0001815	0.0001755	0.0001855	0.000185	0.0001855	0.0001498	0.001308
Std. Dev.	4.396E-05	4.705E-05	4.823E-05	3.677E-05	3.791E-05	3.776E-05	4.949E-05	0.001132
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001442	0.002728
Lower Lim.	0.0001	0.00012	0.00015	0.00013	0.00013	0.00014	9.314E-05	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	PZ-52D	PZ-53D	PZ-70I
8/23/2022		0.00265	
9/1/2022			0.00142
1/25/2023	0.0222	0.00234	
1/26/2023			<0.001
8/23/2023	0.0154		<0.001
8/24/2023		0.00211	
1/31/2024	0.0137	0.00209	<0.001
8/27/2024		0.00191	
8/28/2024	0.00922		<0.001
2/26/2025	0.00804	0.00158	<0.001
Mean	0.01371	0.002113	0.00107
Std. Dev.	0.00564	0.0003649	0.0001715
Upper Lim.	0.02316	0.002615	0.00142
Lower Lim.	0.004261	0.001612	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-36S	BRGWC-38S	PZ-13S	PZ-70I
9/7/2016	0.0024 (J)	0.0032 (J)	0.0079 (J)	0.0311		
11/17/2016	0.0028 (J)	0.0028 (J)				
11/18/2016			0.0082 (J)			
11/21/2016				0.0409		
2/22/2017	0.0018 (J)	0.0018 (J)				
2/23/2017			0.0061 (J)	0.0354		
6/14/2017		0.004 (J)				
6/15/2017	0.0024 (J)		0.0046 (J)	0.0511		
9/27/2017		0.0036 (J)				
9/28/2017	<0.005		0.0042 (J)	0.0484		
2/15/2018	<0.005	<0.005	0.0045 (J)	0.0435		
6/27/2018	0.002 (J)	0.0017 (J)				
6/28/2018			0.0033 (J)	0.037		
12/18/2018		<0.005				
12/19/2018	0.0014 (J)		0.0042 (J)			
12/20/2018				0.037		
1/15/2019					0.0033 (J)	
8/27/2019		<0.005				
8/28/2019	0.003 (J)		0.0041 (J)			
8/29/2019				0.036		
10/16/2019		0.0028 (J)		0.033		
10/22/2019					0.0033 (J)	
12/3/2019	0.0041 (J)		0.0035 (J)			
3/3/2020	0.0019 (J)					
3/5/2020		<0.005	0.0034 (J)	0.032		
8/19/2020	0.003 (J)	<0.005	0.002 (J)	0.041		
9/16/2020	<0.005	0.0028 (J)	0.0031 (J)			
9/17/2020				0.029		
3/3/2021		<0.005	0.0024 (J)			
3/4/2021	<0.005			0.039		
9/22/2021	0.0015 (J)	<0.005	0.0032 (J)			
9/23/2021				0.031		
2/1/2022	0.0021 (J)	<0.005	0.0025 (J)	0.029		
8/23/2022		0.0061		0.0296	0.00157 (J)	
8/24/2022	0.00208 (J)		0.00246 (J)			
9/1/2022						0.00625
1/24/2023	0.00178 (J)	0.0049 (J)				
1/25/2023			0.00237 (J)	0.0279		
1/26/2023					0.00215 (J)	0.00921
8/22/2023		0.00572			<0.005	
8/23/2023	0.00214 (J)		0.00173 (J)	0.0186		0.00829
1/30/2024	0.00271 (J)				0.00203 (J)	
1/31/2024		0.0164	0.00174 (J)	0.0187		0.00789
8/27/2024				0.018	0.00217 (J)	
8/28/2024	0.00304 (J)	0.0238	0.00159 (J)			0.00691
2/26/2025	0.00261 (J)	0.0286	0.00173 (J)	0.0147	0.00308 (J)	0.00633
Mean	0.002853	0.006737	0.003583	0.03281	0.002512	0.00748
Std. Dev.	0.001197	0.006961	0.001848	0.009595	0.0006472	0.001181
Upper Lim.	0.002596	0.00572	0.004343	0.03796	0.003199	0.009103
Lower Lim.	0.001931	0.0032	0.002546	0.02766	0.001826	0.005857

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 1:02 PM View: Confidence Intervals

Plant Branch Client: Southern Company Data: Branch Pond E

	BRGWC-17S	BRGWC-33S	BRGWC-38S
9/7/2016	<0.002	0.0002 (J)	<0.002
11/17/2016	<0.002	0.0002 (J)	
11/21/2016			0.0004 (J)
2/22/2017	<0.002	0.0002 (J)	
2/23/2017			0.0003 (J)
6/14/2017		0.0002 (J)	
6/15/2017	<0.002		0.0003 (J)
9/27/2017		0.0002 (J)	
9/28/2017	<0.002		0.0003 (J)
2/15/2018	<0.002	0.00024 (J)	0.00026 (J)
6/27/2018	<0.002	0.00022 (J)	
6/28/2018			0.00018 (J)
12/18/2018		0.00022 (J)	
12/19/2018	<0.002		
12/20/2018			0.00023 (J)
8/27/2019		0.00016 (J)	
8/28/2019	<0.002		
8/29/2019			0.00021 (J)
10/16/2019		0.00019 (J)	0.0002 (J)
12/3/2019	6.6E-05 (J)		
3/3/2020	<0.002		
3/5/2020		0.0002 (J)	0.0002 (J)
8/19/2020	<0.002	0.00018 (J)	0.00019 (J)
9/16/2020	<0.002	0.00018 (J)	
9/17/2020			0.00017 (J)
3/3/2021		0.00018 (J)	
3/4/2021	<0.002		<0.002
9/22/2021	<0.002	<0.002	
9/23/2021			0.00022 (J)
2/1/2022	<0.002	<0.002	<0.002
8/23/2022		<0.002	<0.002
8/24/2022	<0.002		
1/24/2023	<0.002	<0.002	
1/25/2023			<0.002
8/22/2023		<0.002	
8/23/2023	<0.002		<0.002
1/30/2024	<0.002		
1/31/2024		<0.002	<0.002
8/27/2024			<0.002
8/28/2024	<0.002	<0.002	
2/26/2025	<0.002	<0.002	<0.002
Mean	0.001912	0.0008532	0.0009618
Std. Dev.	0.0004123	0.0008875	0.0008856
Upper Lim.	0.002	0.002	0.002
Lower Lim.	6.6E-05	0.00019	0.00021

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV - Trend Tests - Significant Results

Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004739**	**-167**	**-76**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWC-38S**	**-0.02094**	**-193**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Tests - All Results

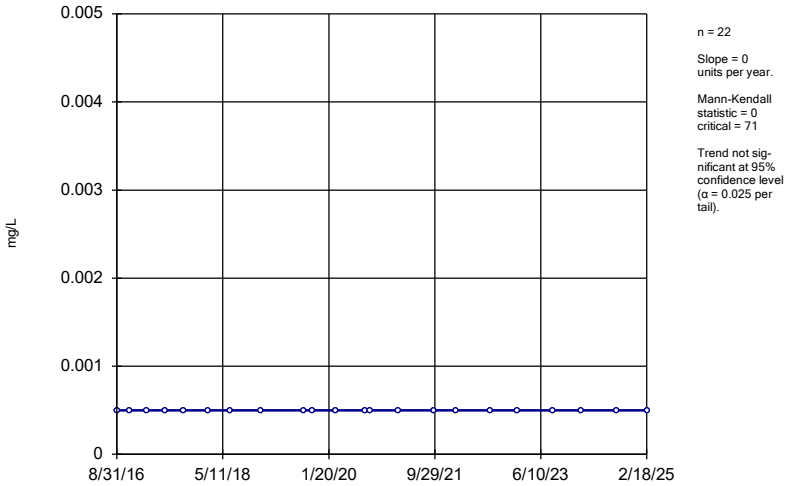
Plant Branch Client: Southern Company Data: Branch Pond E Printed 5/21/2025, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	BRGWA-2I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-2S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5I (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-5S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	BRGWA-6S (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	**BRGWC-38S**	**-0.0004739**	**-167**	**-76**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2I (bg)**	**-0.00005343**	**-81**	**-71**	**Yes**	**22**	**54.55**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-2S (bg)**	**-0.0002537**	**-153**	**-71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**BRGWA-5I (bg)**	**-0.00008865**	**-116**	**-66**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	BRGWA-5S (bg)	0	31	71	No	22	72.73	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWA-6S (bg)	0	24	71	No	22	77.27	n/a	n/a	0.05	NP
Cobalt (mg/L)	BRGWC-33S	0	0	71	No	22	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**BRGWC-38S**	**-0.02094**	**-193**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 71

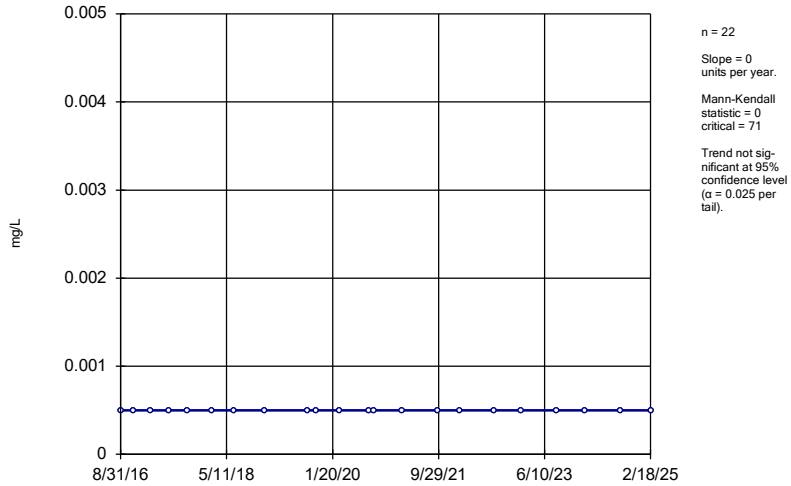
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 71

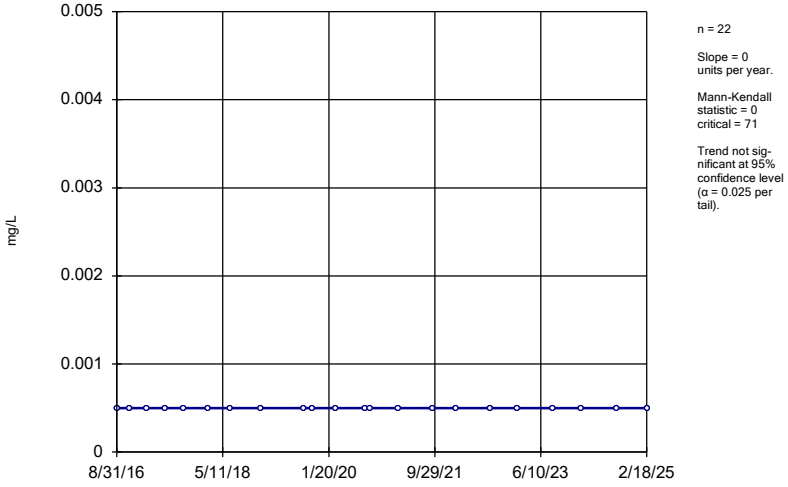
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 71

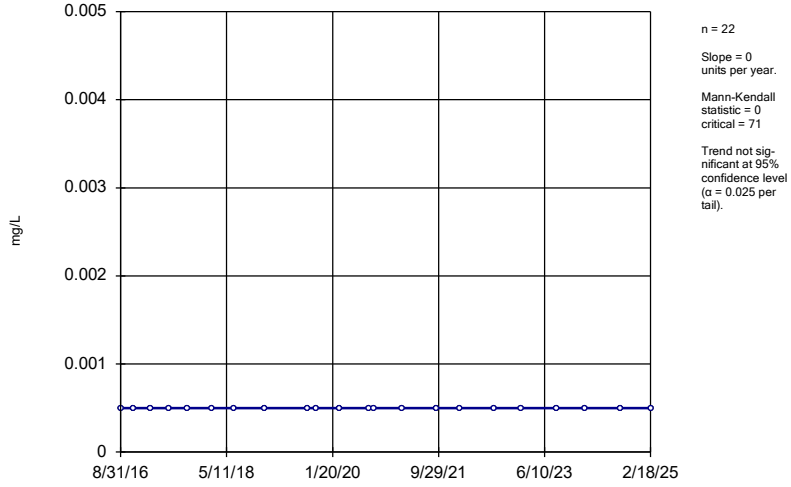
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 71

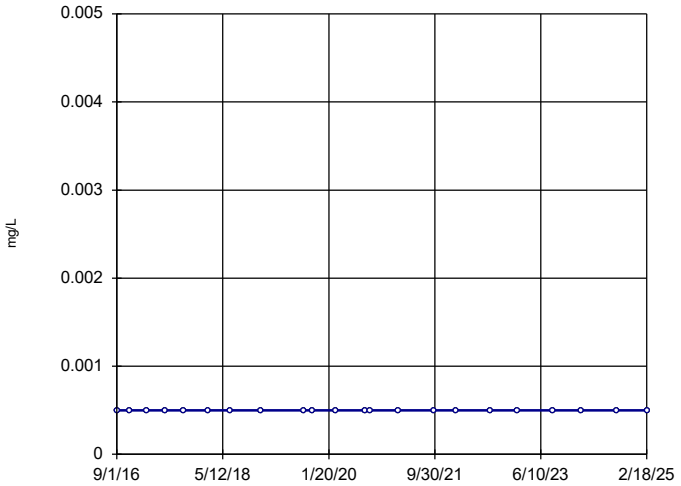
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 71

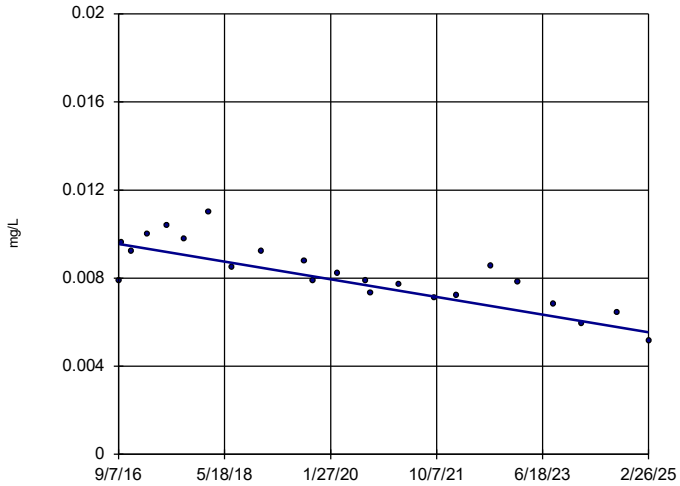
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 23

Slope = -0.0004739
units per year.

Mann-Kendall
statistic = -167
critical = -76

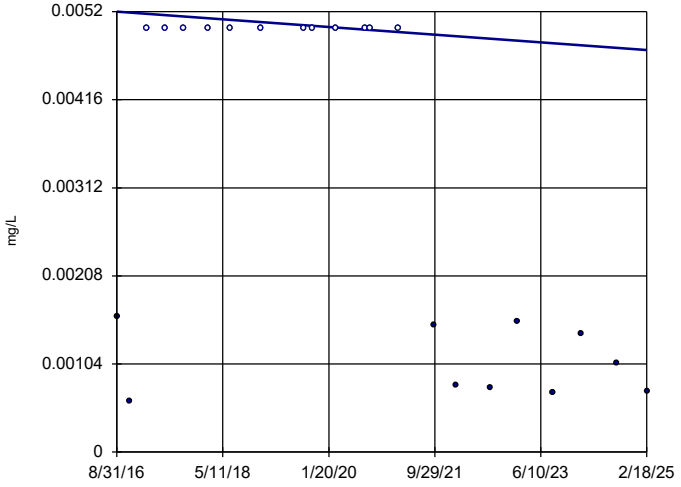
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2I (bg)



n = 22

Slope = -0.00005343
units per year.

Mann-Kendall
statistic = -81
critical = -71

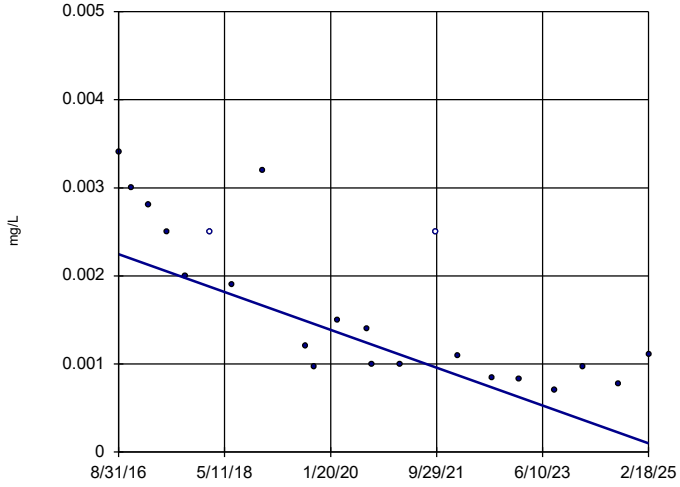
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-2S (bg)



n = 22

Slope = -0.0002537
units per year.

Mann-Kendall
statistic = -153
critical = -71

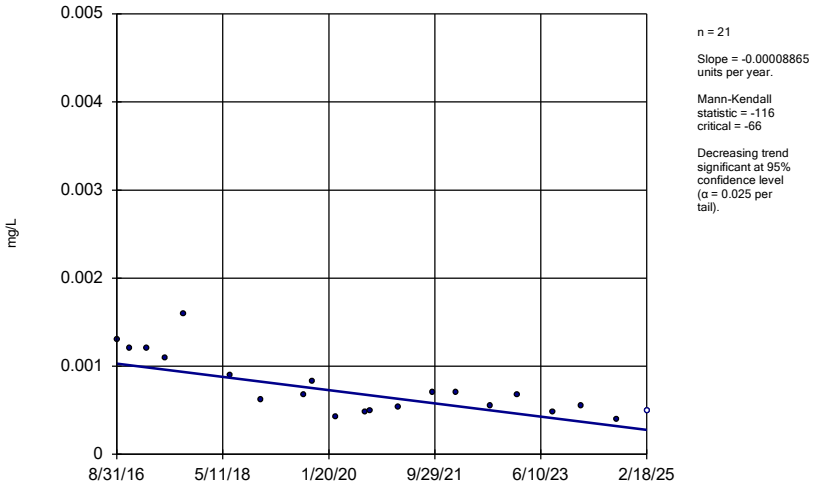
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5I (bg)



n = 21

Slope = -0.00008865 units per year.

Mann-Kendall statistic = -116
critical = -66

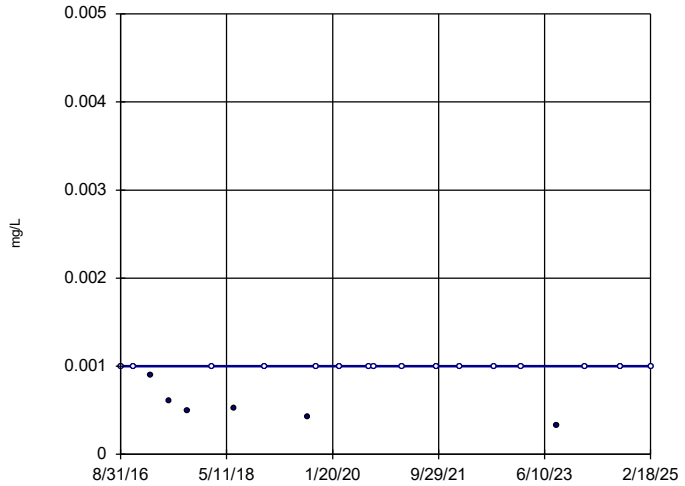
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-5S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 31
critical = 71

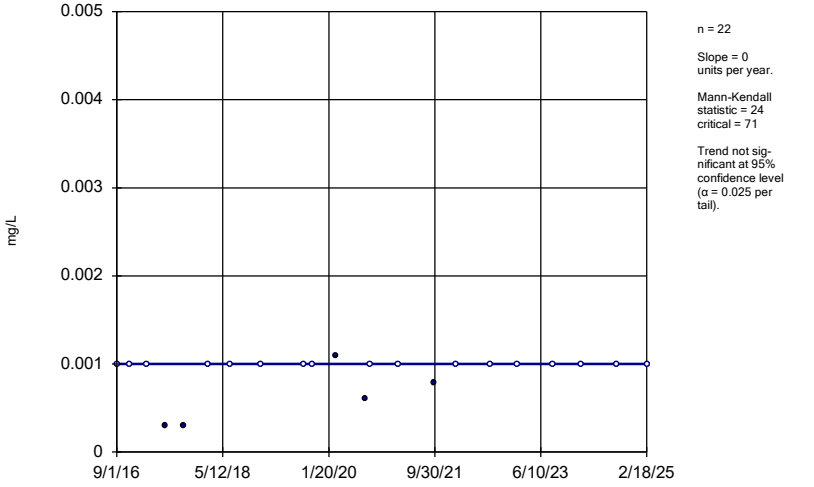
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

BRGWA-6S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 71

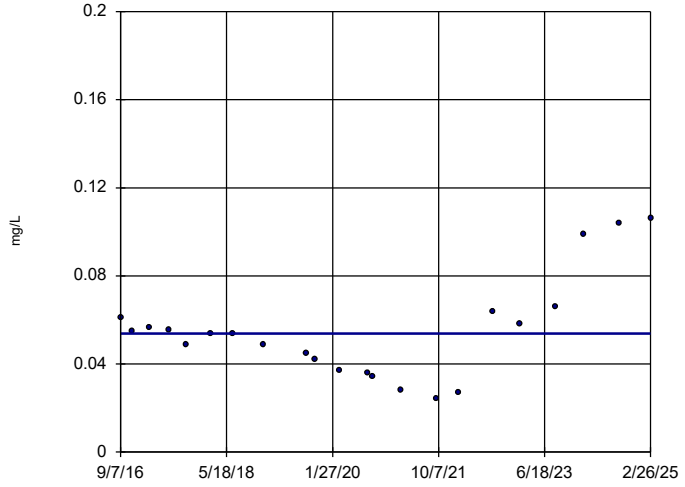
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-33S



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

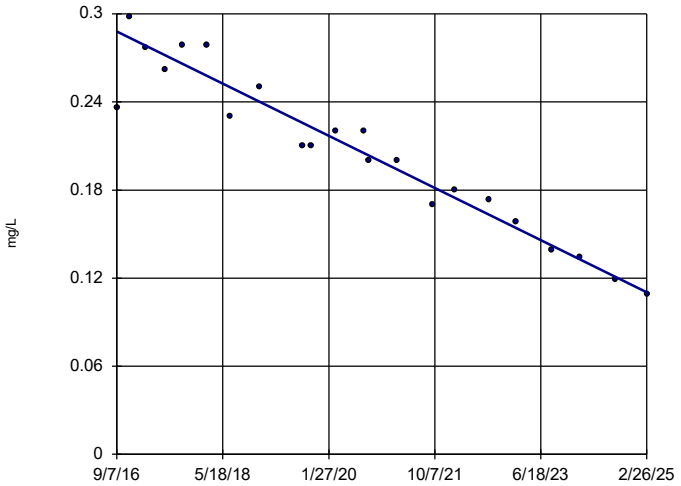
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests
Plant Branch Client: Southern Company Data: Branch Pond E

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

BRGWC-38S



n = 22

Slope = -0.02094 units per year.

Mann-Kendall statistic = -193
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/21/2025 1:03 PM View: Appendix IV - Trend Tests

Plant Branch Client: Southern Company Data: Branch Pond E

APPENDIX E

Potable Well Survey

Plant Branch
1078-1074 Milledgeville Rd
Eatonton, GA 31024

Inquiry Number: 07808115.1r
October 31, 2024

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION **PAGE**

GEOCHECK ADDENDUM

Physical Setting Source Addendum **A-1**

Physical Setting Source Summary **A-2**

Physical Setting Source Map **A-7**

Physical Setting Source Map Findings **A-8**

Physical Setting Source Records Searched **PSGR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. **NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA) INFORMATION PROVIDED IN THIS REPORT.** Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2024 by Environmental Data Resources, LLC. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, LLC, or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT BRANCH
1078-1074 MILLEDGEVILLE RD
EATONTON, GA 31024

TARGET PROPERTY COORDINATES

Latitude (North):	33.202258 - 33° 12' 8.13''
Longitude (West):	83.322819 - 83° 19' 22.15''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	283479.7
UTM Y (Meters):	3675922.0
Elevation:	382 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33083-B3 LAKE SINCLAIR WEST, GA
Version Date:	1972

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

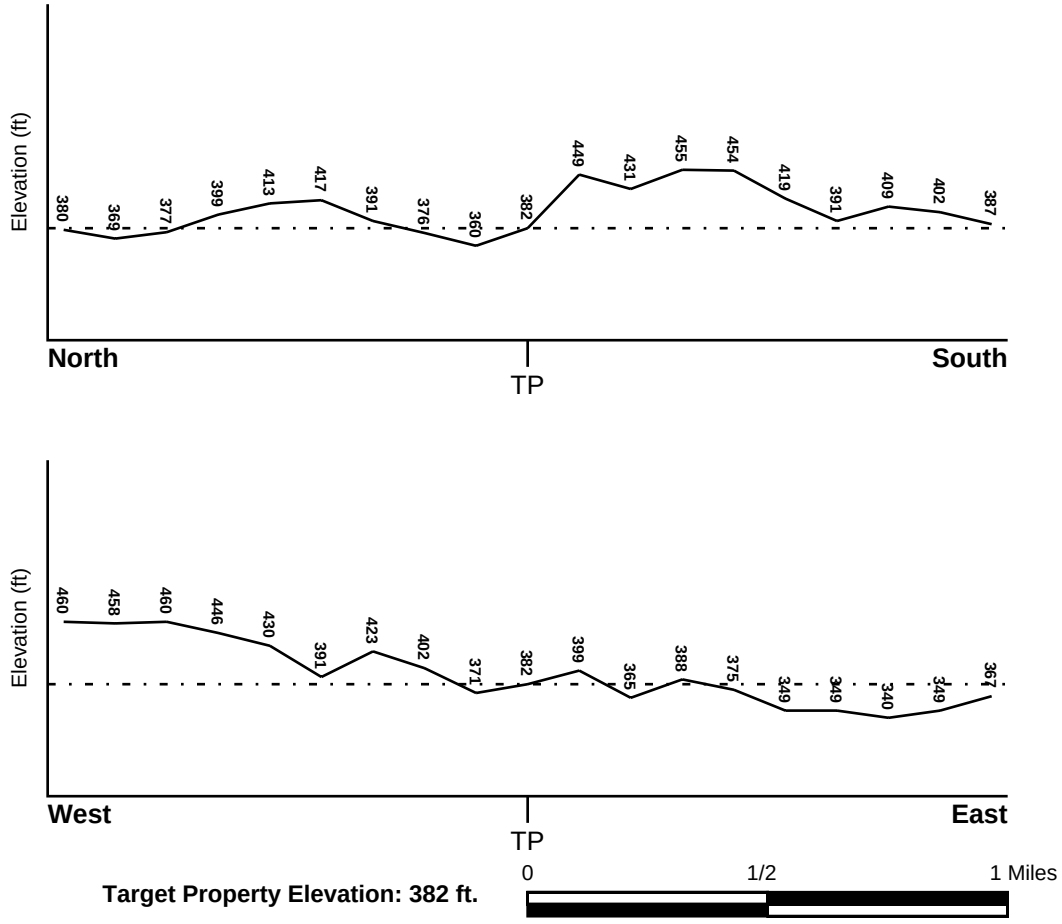
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 382 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13009C0050D	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LAKE SINCLAIR WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Metamorphic Rocks
System:	Pennsylvanian		
Series:	Felsic paragneiss and schist		
Code:	mm1 *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	CECIL
Soil Surface Texture:	sandy clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	7 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50
2	7 inches	11 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
4	50 inches	75 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
loam
fine sandy loam

Surficial Soil Types: sandy loam
loam
fine sandy loam

Shallow Soil Types: clay
sandy clay
gravelly - loam

Deeper Soil Types: loamy fine sand
sandy loam
weathered bedrock

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000262392	1 - 2 Miles NNE
A2	USGS40000262391	1 - 2 Miles NNE
3	USGS40000262403	1 - 2 Miles NNE
B4	USGS40000262292	1 - 2 Miles WSW
5	USGS40000262254	1 - 2 Miles SW
B6	USGS40000262290	1 - 2 Miles WSW
9	USGS40000262386	1 - 2 Miles NE
10	USGS40000262278	1 - 2 Miles WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

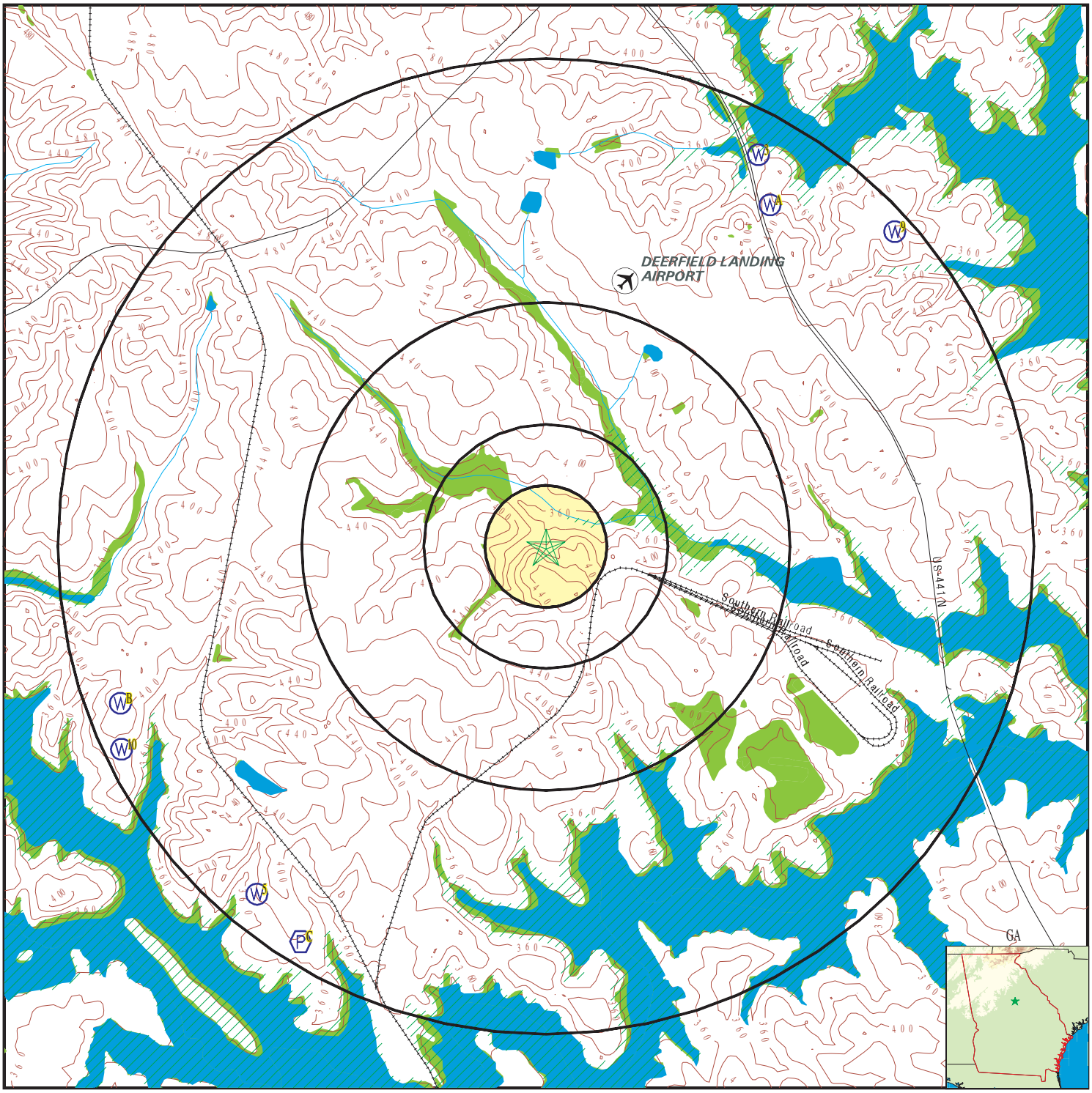
MAP ID	WELL ID	LOCATION FROM TP
C7	GA2370006	1 - 2 Miles SSW
C8	GA2370008	1 - 2 Miles SSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 07808115.1r



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Plant Branch	CLIENT:	Geosyntec Consultants
ADDRESS:	1078-1074 Milledgeville Rd Eatonton GA 31024	CONTACT:	Tristan Halterman
LAT/LONG:	33.202258 / 83.322819	INQUIRY #:	07808115.1r
		DATE:	October 31, 2024 7:56 am

Copyright © 2024 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NNE
1 - 2 Miles
Higher

FED USGS **USGS40000262392**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z016	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

A2
NNE
1 - 2 Miles
Higher

FED USGS **USGS40000262391**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z017	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

3
NNE
1 - 2 Miles
Lower

FED USGS **USGS40000262403**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z013	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

B4
WSW
1 - 2 Miles
Higher

FED USGS **USGS40000262292**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z021	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

5
SW
1 - 2 Miles
Lower

FED USGS **USGS40000262254**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z020	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

B6
WSW
1 - 2 Miles
Higher

FED USGS **USGS40000262290**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z023	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

C7
SSW
1 - 2 Miles
Lower

FRDS PWS **GA2370006**

Epa region:	04	State:	GA
Pwsid:	GA2370006	Pwsname:	PINE FOREST SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13237
Status:	Closed	Retpopsrvd:	1003
Pwssvcconn:	388	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ARCHEBELLE, DONNA	Contactorgname:	ARCHEBELLE, DONNA
Contactphone:	706-485-5252	Contactaddress1:	POB 3639
Contactaddress2:	Not Reported	Contactcity:	EATONTON
Contactstate:	GA	Contactzip:	31024-3639
Pwsactivitycode:	I		

Pwsid:	GA2370006	Facid:	15132
Facname:	PARCEL B/451 AVANT RD PLANT #4		

Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	GA2370006	Facid:	16589
Facname:	160 BEAR CREEK EAST PLANT #5		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	GA2370006	Facid:	16646
Facname:	143 EDGEWATER DRIVE PLANT #6		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	GA2370006	Facid:	3517
Facname:	L525/308 LITTLE RIVER TRAILPLANT #3		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

PWS ID:	GA2370006	PWS name:	PINE FOREST SUBDIVISION
Address:	POB 390	Care of:	GREAT SOUTHEAST UTILITY CO.
City:	GREENSBORO	State:	GA
Zip:	306420390	Owner:	PINE FOREST SUBDIVISION
Source code:	Ground water	Population:	629

PWS ID:	GA2370006	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	PINE FOREST SUBDIVISION
PWS type code:	C	Retail population served:	1003
Contact:	ARCHEBELLE, DONNA	Contact address:	663 GODFREY RD.
Contact address:	EATONTON	Contact city:	GA
Contact state:	31	Contact zip:	706-485-52
Contact telephone:	Not Reported		

County:	PUTNAM	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	HYPOCHLORINATION, POST
Population:	629		

PWS ID:	GA2370006	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000564	System name:	PINE FOREST SUBDIVISION
System address:	GREAT SE UTILITY COMPANY	System address:	POB 390
System city:	GREENSBORO	System state:	GA
System zip:	306420390		

Population served:	501 - 1,000 Persons	Treatment:	Treated

Latitude:	335554	Longitude:	0832024

Latitude:	331044	Longitude:	0832025

State:	GA	Latitude degrees:	33
Latitude minutes:	10	Latitude seconds:	44.0000
Longitude degrees:	83	Longitude minutes:	20
Longitude seconds:	25.0000		

State:	GA	Latitude degrees:	33
Latitude minutes:	19	Latitude seconds:	39.0000

Longitude degrees:	83	Longitude minutes:	21
Longitude seconds:	6.0000		

Violation id:	20101	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		

Violation id:	20301	Orig code:	S
State:	GA	Violation Year:	1997
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/1997
Cmp edt:	Not Reported		

Violation id:	20401	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2000
Cmp edt:	Not Reported		

Violation id:	20604	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		

Violation id:	20705	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2003
Cmp edt:	Not Reported		

Violation id:	20805	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		

Violation id:	21008	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR

Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		

Violation id:	21109	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	Not Reported		

Violation id:	21209	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	07/31/2009		

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St No addtl Formal Action needed		
Enforcement Category:	Informal		

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/20/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/24/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	07/22/2003
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal

Violation ID:	20604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/23/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	20604	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/01/2004

Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/27/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/14/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/01/2004
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/01/2004
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/08/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	21008	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/09/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	21109	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/05/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	21109	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/07/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	21209	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	21209	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20101
Contaminant:	Nitrate	Violation type:	3
Compliance start date:	1/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	9/6/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	0		
PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20101
Contaminant:	Nitrate	Violation type:	3
Compliance start date:	1/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	9/6/2001 0:00:00	Enforcement action:	State Public Notif Received

Violation measurement: 0

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Nitrate
Compliance start date: 1/1/2000 0:00:00
Enforcement date: 9/6/2001 0:00:00
Enforcement action: State No Additional Formal Action Needed
Violation measurement: 0
Population served: 1003
Violation ID: 20101
Violation type: 3
Compliance end date: 12/31/2000 0:00:00

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/1997 0:00:00
Enforcement date: 9/20/2001 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20301
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 12/31/2025 0:00:00
Enforcement action: State Intentional no-action

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2000 0:00:00
Enforcement date: 7/22/2003 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20401
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/24/2001 0:00:00
Enforcement action: State Intentional no-action

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2000 0:00:00
Enforcement date: 7/24/2001 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20401
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/24/2001 0:00:00
Enforcement action: State Compliance Achieved

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2004 0:00:00
Enforcement date: 7/1/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20604
Violation type: 71
Compliance end date: 7/23/2004 0:00:00
Enforcement action: State Intentional no-action

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2004 0:00:00
Enforcement date: 7/23/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20604
Violation type: 71
Compliance end date: 7/23/2004 0:00:00
Enforcement action: State Compliance Achieved

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2003 0:00:00
Enforcement date: 12/1/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20705
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/27/2004 0:00:00
Enforcement action: State Violation/Reminder Notice

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2003 0:00:00
Enforcement date: 12/1/2004 0:00:00
Violation measurement: Not Reported
Population served: 1003
Violation ID: 20705
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 7/27/2004 0:00:00
Enforcement action: State Public Notif Requested

PWS name: PINE FOREST SUBDIVISION
PWS type code: C
Contaminant: Lead & Copper Rule
Population served: 1003
Violation ID: 20705
Violation type: Follow-up and Routine Tap Sampling

Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	7/14/2005 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20705
Contaminant:	Lead & Copper Rule	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2003 0:00:00	Compliance end date:	7/27/2004 0:00:00
Enforcement date:	7/27/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/8/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	20805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/8/2005 0:00:00
Enforcement date:	7/8/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	PINE FOREST SUBDIVISION	Population served:	1003
PWS type code:	C	Violation ID:	21008
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	12/31/2025 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

C8
SSW
1 - 2 Miles
Lower

FRDS PWS **GA2370008**

Epa region:	04	State:	GA
Pwsid:	GA2370008	Pwsname:	TALL TIMBERS-OAK OPENINGS
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13237
Status:	Closed	Retpopsrvd:	733
Pwssvcconn:	279	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ARCHEBELLE, DONNA	Contactorgname:	ARCHEBELLE, DONNA
Contactphone:	706-485-5252	Contactaddress1:	POB 3639
Contactaddress2:	Not Reported	Contactcity:	EATONTON
Contactstate:	GA	Contactzip:	31024-3639
Pwsactivitycode:	I		

Pwsid:	GA2370008	Facid:	15117
Facname:	WELLS 2 & 3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	GA2370008	Facid:	15126
Facname:	116 BLUEGILL RD/L#1 - WELL #5 PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	GA2370008	Facid:	21184
Facname:	308 BLUEGILL ROAD-LOT 215 WELL #6 PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

PWS ID:	GA2370008	PWS name:	TALL TIMBERS-OAK OPENINGS
Address:	POB 390	Care of:	GREAT SOUTHEAST UTILITY CO.
City:	GREENSBORO	State:	GA
Zip:	306420390	Owner:	TALL TIMBERS-OAK OPENINGS
Source code:	Ground water	Population:	465

PWS ID:	GA2370008	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	PUTNAM
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	465

PWS ID:	GA2370008	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000465	System name:	TALL TIMBERS-OAK OPENINGS
System address:	GREAT SE UTILITY COMPANY	System address:	POB 390
System city:	GREENSBORO	System state:	GA
System zip:	306420390		

Population served:	101 - 500 Persons	Treatment:	Treated

Latitude:	335554	Longitude:	0832024

Latitude:	331042	Longitude:	0832025

State:	GA	Latitude degrees:	33
Latitude minutes:	10	Latitude seconds:	42.0000
Longitude degrees:	83	Longitude minutes:	20
Longitude seconds:	25.0000		

Violation id:	10101	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		

Violation id:	10201	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		

Violation id:	10301	Orig code:	S
State:	GA	Violation Year:	1995
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/1995

Cmp edt:	Not Reported		
Violation id:	10501	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2000
Cmp edt:	Not Reported		
Violation id:	10704	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		
Violation id:	10805	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		
Violation id:	10906	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2005
Cmp edt:	Not Reported		
Violation id:	11008	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200002	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Violation start date:	070192	Violation end date:	073192
Violation period (months):	001	Violation awareness date:	Not Reported
Major violator:	Not Reported	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported
Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/06/2001
Enforcement Detail:	St No addtl Formal Action needed		
Enforcement Category:	Informal		

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 05/15/2001
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 05/15/2001
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 10101 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 10/03/2001
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St No addtl Formal Action needed
Enforcement Category: Informal

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 10/03/2001
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/06/2001
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10301 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/20/2001
Enforcement Detail: St Intentional no-action Enforcement Category: Informal

Violation ID: 10501 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 08/17/2001
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10501 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 07/22/2003
Enforcement Detail: St Intentional no-action Enforcement Category: Informal

Violation ID: 10704 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 07/01/2004
Enforcement Detail: St Intentional no-action Enforcement Category: Resolving

Violation ID: 10704 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 07/23/2004
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10805 Orig Code: S
Enforcemnt FY: 2005 Enforcement Action: 07/08/2005
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10805 Orig Code: S
Enforcemnt FY: 2005 Enforcement Action: 07/01/2005

Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/12/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/07/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/17/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	10906	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/07/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11008	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/09/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

---

9
NE **FED USGS** **USGS40000262386**
1 - 2 Miles
Higher

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z015	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

10
WSW **FED USGS** **USGS40000262278**
1 - 2 Miles
Higher

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	19Z022	Type:	Well
Description:	Not Reported	HUC:	03070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for PUTNAM County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 31024

Number of sites tested: 10

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.190 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.