REPORT

2024 Semi-Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4

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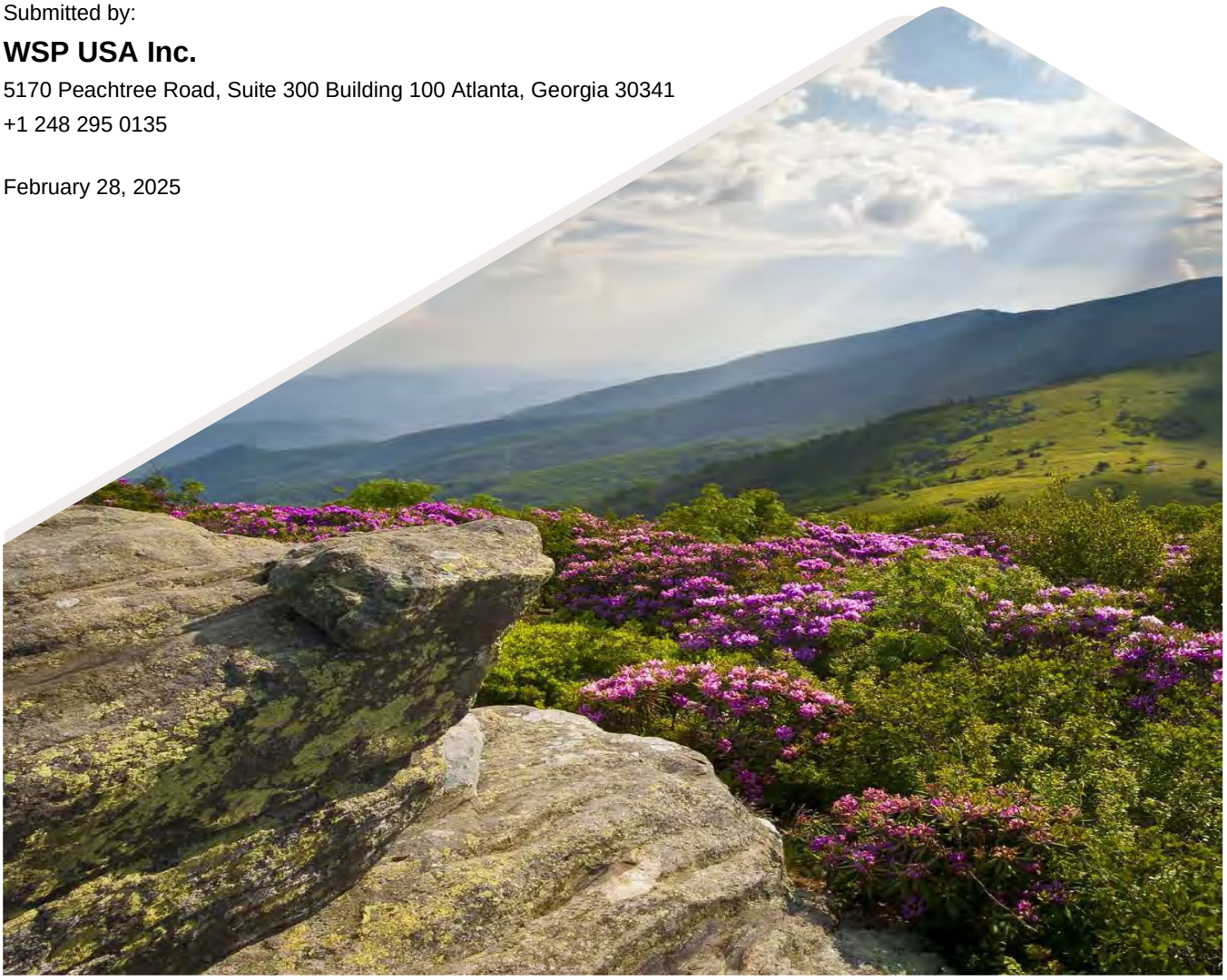

Certification

This *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report*, Plant McDonough-Atkinson Ash Pond 2 and 3/4 (AP-2, 3/4) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with WSP USA, 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.

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Executive Summary

This summary of the *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July through December 2024 at Georgia Power Company's (Georgia Power) Plant McDonough-Atkinson Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4). This summary was prepared by WSP USA, Inc. (WSP) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D). As required in 40 CFR § 257.90(e), this Semi-Annual Report describes the status of the groundwater monitoring program, summarizes key actions completed, and presents projected key activities for the upcoming year for AP-2 and 3/4. The other CCR unit (AP-1) at Plant McDonough-Atkinson (Plant McDonough) is reported separately.

Plant McDonough, formerly a coal-fired power generating facility, was converted to a natural gas combined-cycle power generating facility in 2011. Located approximately 7 miles northwest of Atlanta in southeast Cobb County (5551 South Cobb Drive SE, Smyrna, Georgia 30339), the property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River.

Plant McDonough

Groundwater at AP-2 and 3/4 is monitored using a comprehensive well network of upgradient and downgradient wells that meet Federal and State monitoring requirements. Routine sampling and reporting for AP-2 and 3/4 began after the background groundwater conditions were established between 2016 and 2018.

Based on groundwater quality, an assessment monitoring program and assessment of corrective measures were established on November 13, 2019, and June 9, 2020, respectively. During the 2024 second semi-annual reporting period, the Site remained in assessment monitoring as corrective measures are evaluated.

Groundwater elevation measurements were recorded from the Site monitoring wells prior to each sampling event 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 units.

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

2023-2024 Annual Groundwater Monitoring Activities

The following changes were made to the AP-2 and 3/4 certified detection monitoring network during this reporting period: a dry well was replaced, four new detection monitoring wells were installed, two existing piezometers downgradient of AP-2 and 3/4 were converted to detection monitoring wells, a temporary piezometer (B-129), and an injection well (INW-02) were installed. Existing well DGWC-9 (dry for two previous events) was replaced with new well DGWC-9A. New wells DGWC-126, DGWC-127, and DGWC-128 were installed. Piezometers B-16 and B-18 were converted to DGWC-16 and DGWC-18. Temporary piezometer B-129 was installed to the east of DGWC-47 for further cobalt delineation. The injection well INW-02 was installed to collect data for remedy selection for beryllium, cobalt and lithium at well DGWC-48

Groundwater monitoring semi-annual sampling events for AP-2 and 3/4 were conducted in September 2024. Groundwater samples were collected and analyzed for Appendix III[2] and Appendix IV[3] required monitoring parameters.

Analytical data from the September 2024 monitoring event has been statistically analyzed in accordance with the Site's certified statistical analysis method. For the September 2024 monitoring event, statistical analyses indicate statistically significant increases (SSIs) for Appendix III constituents above the statistical limits and statistically significant levels (SSLs) of Appendix IV constituents above the groundwater protection standards (GWPS) as summarized below.

Appendix III Constituent	September 2024 SSIs[1]
Boron	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
Calcium	DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42
Fluoride	DGWC-9, DGWC-10, DGWC-20, DGWC-47, DGWC-48
pH	DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
TDS	DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
Appendix IV Constituent	**September 2024 SSLs[2]**
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-92, B-93, B-104D
Lithium	DGWC-47, DGWC-48, B-120D
Radium 226 + 228[3]	B-104D, B-122D

[2] Appendix III: boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids
[3] Appendix IV: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, combined radium (226 + 228), selenium, and thallium.

Notes:
[1] An SSI is determined by an exceedance of the calculated prediction limit.
[2] An SSL is determined by comparing the confidence interval to the GWPS. Per GA EPD Rule 391-3-4-.10(6)(a), the GWPS is: (i) the MCL or Federal and State CCR rules specified levels, or (ii) background levels for constituents where the background level is higher than the MCL or Federal and State CCR rules specified levels.
[3] An ASD for Combined Radium (226+228) at B-104D and B-109D was approved by GA EPD on June 15, 2023. An ASD addendum was submitted on May 28, 2024 to GA EPD in response to the recent SSLs of Combined Radium (226+228) at B-111D and B-122D.

The Appendix IV SSLs for arsenic, beryllium, cobalt, and lithium are horizontally and vertically delineated in Site detection and assessment wells and downgradient surface water sampling to below the GWPS and/or flow toward AP-4. Surface water samples collected in September 2024 were non-detect for arsenic and cobalt, consistent with previous observations.

An Alternate Source Demonstration (ASD) for radium was initially submitted to GA EPD on April 29, 2022 and a revised ASD submitted to GA EPD on July 26, 2022. Based on Site investigation data, additional supporting evidence as to the natural presence of combined radium, a *Supplemental ASD for Combined Radium* was submitted to GA EPD on May 22, 2023 (WSP, 2023a), and was approved by GA EPD on June 15, 2023. An ASD addendum was submitted for GA EPD review on May 28, 2024 in response to the recent SSL at B-111D and B-122D (WSP, 2024a). A *Draft Remedy Selection Report* was prepared by Georgia Power and was submitted to GA EPD under separate cover on August 31, 2023 (WSP, 2023b) and is pending GA EPD review. Based on review of the Appendix III and Appendix IV results noted above, the Site will remain in Assessment Monitoring. Georgia Power will continue routine groundwater monitoring and evaluation of corrective action alternatives at the Site. Reports will be posted to the website and provided to the GA EPD semi-annually.

Table of Contents

1.0 INTRODUCTION 1
1.1 Site Description and Background 1
1.2 Regional Geology and Hydrogeologic Setting 1
1.3 Groundwater Monitoring Network 2
2.0 GROUNDWATER MONITORING ACTIVITIES 2
2.1 Monitoring Well Installation and Maintenance 2
2.2 Assessment Monitoring 3
2.3 Additional Sampling 4
2.4 Annual Water Well Survey 4
3.0 SAMPLE METHODOLOGY AND ANALYSIS 5
3.1 Groundwater Elevation Measurement 5
3.2 Groundwater Gradient and Flow Velocity 5
3.3 Groundwater Sampling 6
3.4 Laboratory Analysis 7
3.5 Quality Assurance and Quality Control 7
4.0 STATISTICAL ANALYSIS 7
4.1 Statistical Method 8
4.1.1 Appendix III Detection Monitoring Statistical Methods 8
4.1.2 Appendix IV Assessment Monitoring Statistical Methods 8
4.2 Statistical Analysis Results 9
4.2.1 September 2024 Appendix III Statistical Results 9
4.2.2 September 2024 Appendix IV Statistical Results 9
4.3 Alternate Source Demonstration 10
5.0 ASSESSMENT MONITORING AND DELINEATION STATUS 10
6.0 ASSESSMENT OF CORRECTIVE MEASURES 13
7.0 MONITORING PROGRAM STATUS 14
8.0 CONCLUSIONS AND FUTURE ACTIONS 14
9.0 REFERENCES 15

Tables

Table 1: Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Table 2: Groundwater Event Summary
Table 3: Summary of Groundwater Elevations
Table 4: Groundwater Flow Velocity Calculations – September 2024
Table 5: Groundwater Analytical Data Summary – September 2024
Table 6: Surface Water Analytical Data Summary – September 2024
Table 7: Summary of Background Levels and GWPS

Figures

Figure 1: Site Location Map
Figure 2: Plant McDonough CCR Removal Area
Figure 3: Monitoring Well, Piezometer and Surface Water Location Map
Figure 4A: Site Potentiometric Map – September 3, 2024
Figure 4B: (Inset) Site Potentiometric Map – September 3, 2024
Figure 5: Arsenic Isoconcentration Contour Map – September 2024
Figure 6: Beryllium Isoconcentration Contour Map – September 2024
Figure 7: Cobalt Isoconcentration Contour Map – September 2024
Figure 8: Lithium Isoconcentration Contour Map – September 2024
Figure 9: Radium Isoconcentration Contour Map – September 2024

Appendices

Appendix A: Field Data Forms and Instrument Calibration Forms
Appendix B: Laboratory Analytical Data, Data Validation Summary and Laboratory Accreditation
Appendix C: Well Condition Inspection Table and Well Maintenance and Repair Documentation
Appendix D: Annual Water Well Survey
Appendix E: Statistical Analyses
Appendix F: Plant McDonough Ash Pond Pre-Design Investigation Technical Memorandum
Appendix G**:** Batch and Column Treatability Studies

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia (GA) Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, this *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report* was prepared to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power)'s Plant McDonough-Atkinson Ash Pond 2 (AP-2), Ash Pond 3 (AP-3), and Ash Pond 4 (AP-4) (aka AP-2 and 3/4) and satisfies the requirements of § 257.90(e). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the US EPA CCR rule (40 CFR 257 Subpart D). For ease of reference, the US EPA CCR rules are cited within this report.

This semi-annual report documents groundwater monitoring events conducted in September 2024 at AP-2 and 3/4. Activities completed at Plant McDonough's Ash Pond 1 (AP-1) are reported under separate cover.

1.1 Site Description and Background

Plant McDonough-Atkinson (Plant McDonough, Site), formerly a coal-fired power generating facility, was converted to a natural gas combined-cycle power generating facility in 2011. Located approximately 7 miles northwest of Atlanta in southeast Cobb County (5551 South Cobb Dr SE, Smyrna, GA 30080), the property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River. A site location map is included as Figure 1.

Four CCR surface impoundments are located on the Site: Ash Pond 1 (AP-1), Ash Pond 2 (AP-2), Ash Pond 3 (AP-3) and Ash Pond 4 (AP-4). AP-3 and AP-4 have historically operated together and are being closed as a Combined Unit AP-3/4. AP-1 is reported separately from AP-2 and 3/4. A notification of intent to initiate closure of the inactive CCR surface impoundment was certified for AP-2 on December 7, 2015, and for AP-3/4 on December 8, 2015, and posted to Georgia Power's website. A permit application was submitted to GA EPD in November 2018 and is currently pending approval. CCR removal and consolidation at Plant McDonough AP-2, and 3/4 has been completed and final capping and closure is underway. Areas of certified CCR removal are shown on Figure 2.

Groundwater monitoring and reporting for AP-2 and 3/4 are being performed to meet the alternate schedule in § 257 100(e)(5) of the revised US EPA CCR rule (August 5, 2016) as a combined multi-unit AP-2 and 3/4. CCR impoundments AP-2 and 3/4 are located adjacent to each other and there is semi-radial flow away from these CCR units. For these reasons, a combined multi-unit monitoring network has been established for AP-2 and 3/4 as allowed in the CCR Rule § 257.91.

1.2 Regional Geology and Hydrogeologic Setting

The following section and subsections include a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the Site as presented in the *Hydrogeologic Assessment Report (HAR)* (WSP, 2024b).

The Site is located in the Piedmont/Blue Ridge geologic province, which contains some of the oldest rock formations in the southeastern United States. These late Precambrian to late Paleozoic rocks have undergone repeated cycles of igneous intrusions and extrusions, metamorphism, folding, faulting, shearing, and silicification. Rock outcrops near the site consist of biotite gneiss, porphyritic gneiss, mica schist, and quartzite.

Residual soils, primarily clayey/sandy silt, sandy silt with clay, and silty sand, occur as a variably thick blanket overlying bedrock across most of the Site. These residual saprolitic soils along with saprolitic transitionally or partially weathered rock, collectively referred to as the overburden, range between approximately 9 to 65 feet in thickness across the Site, with an average thickness of approximately 43 feet. Saprolitic rock is considered to be transitionally weathered rock (TWR) or partially weathered rock (PWR). Where TWR is a qualitative description based on visual observations, PWR is defined by Standard Penetration Test (SPT) blow counts that exceed 50 blows/six inches.

A regional, unconfined surficial aquifer system is present at the Site, existing within the overburden and weathered and fractured upper bedrock (e.g., approximately the first 30 feet), depending on topographic location. Recharge primarily occurs through precipitation and subsequent infiltration. Generally, groundwater flow occurs through intergranular pore spaces in the overburden and is controlled by topography and top of rock variations.

A limited and localized bedrock aquifer system also occurs beneath the Site. The upper bedrock is fractured and weathered, connected hydraulically with the overburden groundwater, and is considered part of the uppermost aquifer. The overlying silt/clay-rich overburden may act to retard recharge into the bedrock aquifer system. In addition, deeper bedrock (i.e., greater than approximately 30 feet into the bedrock) is unweathered with few discontinuities (e.g., fractures) available to store or transmit groundwater.

1.3 Groundwater Monitoring Network

Pursuant to § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at AP-2 and 3/4 to monitor groundwater passing the waste boundary. Wells were located to monitor upgradient and downgradient groundwater conditions based on groundwater flow direction. AP-2 and 3/4 monitoring well and piezometer locations are shown on Figure 3.

A comprehensive network of monitoring wells was installed for groundwater monitoring in proximity to AP-2 and 3/4. A separate network for AP-1 as well as a series of piezometers are also installed at the Site. Construction details are presented in Table 1 for each well in the current Site groundwater monitoring network, including detection monitoring wells, assessment monitoring wells, and piezometers for AP-2 and 3/4; and the separate multi-unit monitoring network wells for AP-1.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following section describes monitoring-related activities for sampling performed at the Site from July through December 2024. Routine groundwater sampling was performed in September 2024 in accordance with 40 CFR § 257.93. Groundwater monitoring field forms from these monitoring events are provided in Appendix A and the analytical data reports are presented in Appendix B.

2.1 Monitoring Well Installation and Maintenance

September 2024 field activities included visual inspection of well conditions prior to sampling, recording conditions around each well, and performing exterior maintenance to provide safe access for sampling. The well condition inspection forms are included in Appendix C.

There were several changes to the detection groundwater monitoring system during this reporting period. Four new detection monitoring wells were installed, two existing piezometers were converted to downgradient detection

monitoring wells, a dry detection monitoring well was abandoned and replaced, and a temporary piezometer was installed. An injection well was also installed.

Existing monitoring well DGWC-9 had been dry for two previous consecutive monitoring periods (September 2023, and the January-February 2024) prior to the September 2024 event, likely due to the ongoing dewatering at AP-4. In order to have a consistent monitoring well in the DGWC-9 location, replacement well DGWC-9A was drilled and constructed deeper adjacent to DGWC-9. There was sufficient groundwater in DGWC-9 to sample in September 2024 prior to abandonment. Construction of replacement well DGWC-9A was initiated in November 2024 and was completed when its horizontal coordinates and elevation were surveyed in January 2025. Well DGWC-9 was decommissioned and abandoned in November 2024. An installation and abandonment report will be submitted under separate cover.

The detection monitoring network at AP-3/4 was enhanced with the installation of new detection monitoring wells, DGWC-126 and DGWC-127 and the incorporation of two existing piezometers (B-16 and B-18) as detection monitoring wells DGWC-16 and DGWC-17. Addition of these four wells were performed in consultation with Georgia EPD and the end result is expected to strengthen the detection network with improved coverage. Well DGWC-128 was installed on the northern side of AP-3/4 downgradient of assessment wells B-120 and B-125. The wells were installed November 2024 and January 2025 and surveyed in January 2025. DGWC-126 to DGWC-128 will be sampled on quarterly basis to establish the wells' background data. An installation report will be submitted under separate cover.

A temporary piezometer, B-129, was installed in January 2025 to the east of DGWC-47 to collect additional delineation data for cobalt. The temporary piezometer was installed into shallow bedrock and sampled. A well installation report for the temporary piezometer will be submitted under a separate cover.

Newly installed injection well INW-02 was installed near DGWC-48. The injection well was installed to collect data for remedy selection for beryllium, cobalt, and lithium at well DGWC-48. Injection well INW-02 was installed and sampled in December 2024. A well installation report for the injection well will be submitted under a separate cover.

Monitoring wells are inspected semi-annually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). Monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix C. This work was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(1), an assessment monitoring program has been established for AP-2 and 3/4 based on identified statistically significant increases (SSIs). A notice of assessment monitoring was placed in the operating record on November 13, 2019. Following the requirements of § 257.96, an assessment of corrective measures is ongoing, and a *Draft Remedy Selection Report* was submitted to GA EPD on August 31, 2023.

Groundwater sampling was conducted for AP-2 and 3/4 in September 2024 in accordance with § 257.93 and GA EPD rule 391-3-4-.10(6)(a). Samples were collected from each well in the certified monitoring network and the established assessment monitoring network for AP-2 and 3/4 (Table 1). The location of each of these monitoring

wells is shown on Figure 3. Table 2 presents a summary of groundwater sampling events completed for AP-2 and 3/4 and the status of the monitoring network.

During the September 2024 semi-annual sampling event, groundwater samples were collected and analyzed for Appendix III and Appendix IV constituents. Results of the sampling activities are discussed in Section 5.0, and the data are presented in Appendix B.

2.3 Additional Sampling

Installation of additional wells to horizontally characterize groundwater downgradient of AP-2 and 3/4 wells with SSLs of cobalt is infeasible due to the proximity of the Chattahoochee River. Georgia Power therefore collected surface water samples from the Chattahoochee River on September 10, 2024. The surface water samples were analyzed for Appendix III parameters, select Appendix IV parameters (arsenic and cobalt) and major ions (magnesium, potassium, sodium, and total and bicarbonate alkalinity). Two of the locations within the Chattahoochee River are used for delineation of cobalt (Dewatering Upstream (DW_US) and CR-0.1). Surface water sampling locations are shown on Figure 3. Surface water samples are collected in accordance with Region 4 U.S. Environmental Protection Agency Laboratory Services and Applied Science Division, Operating Procedure: *Surface Water Sampling* (US EPA, 2023). The results of surface water sampling are discussed in Section 5.0 and the laboratory reports for the September 2024 event are provided in Appendix B. Georgia Power will continue collecting the surface water samples semi-annually as needed for site delineation.

Additional data collection and evaluation are ongoing to support the selected corrective measure (i.e., in-situ injections and monitored natural attenuation). Groundwater samples collected from the detection and assessment monitoring well networks in September 2024 were analyzed for major ions (magnesium, potassium, sodium, and total and bicarbonate alkalinity) and minor ions (iron and manganese).

Well B-98 purged dry during sampling and had elevated turbidity. Upon recharge, the well was sampled and analyzed for total and dissolved metals.

Newly installed injection well INW-02, near DGWC-48, was sampled in December 2024. Groundwater from INW-02 was analyzed for beryllium, cobalt, and lithium to collect data for remedy selection. The laboratory report is provided in Appendix B.

Temporary piezometer B-129, to the east of DGWC-47, was sampled in January 2025. The groundwater sample from B-129 was analyzed for boron and cobalt. The laboratory report is provided in Appendix B.

2.4 Annual Water Well Survey

A potable well survey of potential groundwater wells within a two-mile radius of AP-2 and 3/4 was conducted in October 2024 and consisted of reviewing Federal, State, and county records, and online resources. A survey conducted by Environmental Data Resources (EDR) is included in Appendix D. Additional Federal, State, and county records, and online sources outside of the EDR survey were also reviewed by WSP. The Cobb County Environmental Health Department responded October 10, 2024 that they did not have records of approved water wells within a 2-mile radius of AP-2 and 3/4, The updated EDR report is in Appendix D and no new wells were identified from the EDR report.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

The following sections describe methods used to conduct the September 2024 semi-annual AP-2 and 3/4 groundwater monitoring event. Groundwater analytical data and chain of custody records are presented in Appendix B.

3.1 Groundwater Elevation Measurement

Groundwater elevations were measured during the September 2024 monitoring event prior to sampling. Groundwater elevation data from September 3, 2024, are summarized in Table 3. Calculated water level data were used to develop Figures 4A and 4B. Site potentiometric maps indicate that groundwater generally flows southeast across the Site from the topographic high northwest of AP-3/4 towards AP-2 and the Chattahoochee River, which is consistent with historical observations. Localized flow direction fluctuations due to ongoing dewatering efforts at AP-4 are shown on Figures 4B, which focus on of the northeast portion of AP-3/4. Groundwater flow in this area is towards the center of AP-3/4. Dewatering at AP-4 is creating an inward gradient, restoring the pre-impoundment southward groundwater flow pattern in the northeast portion AP-3/4 that is expected to continue in the future, corresponding to the higher topographic elevations in that area following closure. AP-2 was over-excavated into subgrade soils and filled with on-site backfill from the AP-4 dike, creating a topographic low. Construction in the AP-3/4 area is substantially complete pending construction certification and minor ongoing ash removal.

3.2 Groundwater Gradient and Flow Velocity

Hydraulic gradient is calculated as the difference in groundwater elevation (in feet) divided by the distance between two piezometers or wells (in feet). Groundwater elevation data recorded in September 2024 from two piezometer and/or well pairings; DGWA-53/DGWC-13, and B-26/DGWC-48, located along the inferred groundwater flow paths (i.e., perpendicular to the potentiometric contours) were used to calculate hydraulic gradients for AP-2 and 3/4.

The site hydraulic conductivity data set was enhanced with new field measurements of the hydraulic conductivity data by groundwater zone; namely: residual soils, saprolite, TWR/PWR (collectively the overburden), and upper bedrock. Based on the new dataset, the estimated average hydraulic conductivity in the uppermost aquifer (overburden plus upper bedrock) at the Site is 2.4 x 10-4 centimeters/second (cm/sec), or 0.69 feet/day (WSP, 2024b). The updated hydraulic conductivity value is lower than that previously used to calculate site groundwater flow velocities. This hydraulic conductivity value is within the range of values expected for silty sand and weathered/fractured metamorphic rocks (Freeze and Cherry, 1979).

Average groundwater flow velocities at the Site were calculated using the September 2024 hydraulic gradient data, the updated average upper aquifer hydraulic conductivity (WSP, 2024b), and an estimated effective porosity of the screened portion of the uppermost aquifer. The updated average hydraulic conductivity of the uppermost aquifer (i.e., 0.69 feet/day) (WSP, 2024b) was used in the velocity calculations. An effective porosity of 0.20 (20%) was used based on the default values for effective porosity recommended by US EPA for a silty-sand type soil (US EPA 1996)

The horizontal flow velocities were calculated using the commonly used derivative of Darcy’s Law:

$$V = \frac{K * i}{n_e}$$

Where:

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

K = Average hydraulic conductivity of the aquifer $\left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient $\left(\frac{feet}{feet}\right)$

n_e = Effective porosity

Using this equation, groundwater horizontal flow velocities were calculated for AP-2 and 3/4 using September 2024 groundwater elevation data as shown in Table 4.

Calculated (horizontal) flow velocities range from approximately 33 feet per year (ft/yr) to 34 ft/yr in September 2024 for AP-2 and 3/4 (Table 4). These estimated flow velocities are lower than past results and are also generally consistent with other published velocities for overburden-upper bedrock aquifers of the Piedmont (Heath, 1982 and 1984).

3.3 Groundwater Sampling

Groundwater samples were collected in accordance with § 257.93(a) and 391-3-4-.10(6). Monitoring wells were purged and sampled using low-flow sampling procedures. Dedicated and non-dedicated, low-flow pneumatic bladder pumps and peristaltic pumps were used to purge and sample the wells. Field equipment was decontaminated prior to use and between wells using US EPA Laboratory Services and Applied Science Division, Operating Procedure, *Field Equipment Cleaning and Decontamination* (US EPA, 2020a). AquaTROLL® 400 meters were used to monitor and record field water quality parameters (temperature, specific conductance, dissolved oxygen [DO], pH, and oxidation-reduction potential [ORP]) during purging. Turbidity was monitored using a LaMotte 2020 or Hach turbidimeters. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- pH within ±0.1 standard units (S.U.)
- specific conductance within ±5%
- DO within ±10% or ±0.2 milligrams per liter (mg/L) (whichever is greater) for DO where DO>0.5 mg/L; if DO<0.5 mg/L, the DO stabilization criterion does not apply
- turbidity less than 5 nephelometric turbidity units (NTU)

Upon achieving stabilization, unfiltered samples were collected directly in appropriately preserved laboratory-supplied sample containers, placed in ice-packed coolers, and submitted to the laboratory following standard chain-of-custody protocol. Sample chain-of-custody records are included in Appendix B.

Field data and sampling notes for each monitoring well are recorded on the field information forms generated by the Aqua TROLL® 400. These forms include a description of the sampling equipment, sampling method, test notes, field observations, and purge logs (purge rate, stabilization parameters, and depth to water measurements) at each monitoring location. Deviations from the sample plan and stabilization criteria are noted on the field information forms. Field data sheets and daily field instrument calibration forms are included in Appendix A.

3.4 Laboratory Analysis

September 2024 groundwater samples from wells in the detection and assessment monitoring network were analyzed for Appendix III and Appendix IV monitoring parameters per 40 CFR § 257.93 and § 257.95(d)(2). Table 5 presents a tabulated summary of the September 2024 detection and assessment sample results. Results for the surface water samples collected in September 2024 are presented in Table 6. Analytical methods used for monitoring parameters are listed in the analytical data reports in Appendix B.

Laboratory analyses were performed by Pace Analytical Services, LLC (Pace) in Peachtree Corners, Georgia, Asheville, North Carolina, and Greensburg, Pennsylvania. Pace is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains NELAP certification for the parameters analyzed for this project. Analytical data reports including chain-of-custody records for the monitoring events and NELAP certifications are presented in Appendix B.

3.5 Quality Assurance and Quality Control

Quality assurance/quality control (QA/QC) samples were collected at a rate of one per every 10 samples during the September 2024 sampling event. QA/QC samples included equipment blanks (where non-dedicated sampling equipment was used), field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation as described below, and are included in Appendix B.

Groundwater quality data in this report were independently validated in accordance with *Data Validation Standard Operating Procedures* (US EPA, 2016), *National Functional Guidelines for Inorganic Superfund Method Data Review* (US EPA 2020b), *US Department of Energy, Evaluation of Radiochemical Data Usability* (Paar, 1997) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries, relative percent differences (RPDs), laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data per US EPA procedures and guidance. The data validation summaries report is provided in Appendix B, along with the laboratory reports. The validated data summarized in Tables 5 and 6 meet project objectives.

A value followed by a "J" flag in tables and laboratory reports indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

Total radium concentration (Radium 226+228) is a combination of isotopes 226 and 228. When radium data are reported below the Minimum Detectable Concentration (MDC), the values are followed by a "U" flag in the tables.

4.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and Appendix IV groundwater monitoring data was performed pursuant to §257.93-95 following the established statistical method for AP-2 and 3/4 (Groundwater Stats Consulting, 2019). The statistical analysis report prepared by Groundwater Stats Consulting, LLC is presented in Appendix E.

4.1 Statistical Method

The selected statistical method for AP-2 and 3/4 was developed in accordance with 40 CFR § 257.93(f), using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance* (US EPA, 2009). Sanitas groundwater statistical software was used to perform statistical analyses. Sanitas is a decision-support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the US EPA 2009 Unified Guidance document.

4.1.1 Appendix III Detection Monitoring Statistical Methods

Appendix III groundwater monitoring data were statistically evaluated through the use of interwell prediction limits. The Sen's Slope/Mann Kendall trend test was also performed to evaluate concentrations over time and determine whether concentrations are statistically increasing, decreasing, or stabilizing. Upgradient well data were pooled to establish background statistical limits. Data from the September 2024 assessment monitoring event were analyzed using interwell prediction limits applying an optional 1-of-2 verification resample plan and compared to the background statistical limits to evaluate whether concentrations exceed background levels. The Sen's Slope/Mann Kendall trend test was performed to evaluate whether concentrations in individual wells are statistically increasing, decreasing, or stabilizing over time. The results of the background comparisons and trend analyses are presented in Appendix E.

4.1.2 Appendix IV Assessment Monitoring Statistical Methods

Statistical analyses while in assessment monitoring are performed by comparing confidence intervals against groundwater protection standards (GWPS). Parametric tolerance limits were used to calculate Site-specific background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the GWPS under 40 CFR § 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a). As described in 40 CFR § 257.95(h)(1-3) adopted by reference in the State rule, the GWPS is:

- The maximum contaminant level (MCL) established under 40 CFR §141.62 and §141.66.
- Where an MCL has not been established, Federal and State CCR rules specified levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), or molybdenum (0.100 mg/L).
- The respective background level for a constituent when the background level is higher than the MCL or Rule-identified GWPS.

Following the rule requirements, background concentrations were evaluated to establish site-specific GWPS for statistical comparison of Appendix IV constituents. Table 7 summarizes the background limit established at each monitoring well and the applicable GWPS established under the State and Federal rules.

Confidence intervals were calculated for each of the Appendix IV parameters in each downgradient well for comparison to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. If there is an exceedance of the established standard, an SSL exceedance is identified.

A summary table of the statistical results accompanies the prediction limits for Appendix III and confidence intervals for Appendix IV in Appendix E. The background period for statistical analyses included historical data

through the current event. Tolerance limits for confidence interval calculations are updated to include current data. Due to varying reporting limits in background over time, the most recent reporting limit is used when analytes are reported as non-detects. This process results in a more appropriate statistical test for the data set.

Based on a recent evaluation, conducted by Groundwater Stats Consulting, the background data period for cobalt at DGWA-53 has been truncated to eliminate historically elevated concentrations that are no longer representative of current background conditions. The revised background period for statistical analyses of cobalt at DGWA-53 includes data from July 12, 2018, through the most recent event (September 2024). Excluding the historical elevated concentrations of cobalt at DGWA-53 from background analysis has resulted in a lower GWPS for cobalt and additional SSLs, as discussed in Section 5.

4.2 Statistical Analysis Results

Analytical data from September 2024 at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified *Statistical Analysis Plan* (Groundwater Stats Consulting, 2019). Verification resampling to confirm initial statistically significant increases (SSIs) was not performed; therefore, initial SSIs are considered verified. The statistical results are included in Appendix E.

4.2.1 September 2024 Appendix III Statistical Results

Based on the statistical results, SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS) were identified following the September 2024 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix E.

4.2.2 September 2024 Appendix IV Statistical Results

Analytical data from the September 2024 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified statistical analysis method according to both 40 CFR § 257.95(h) and 391-3-4-.10(6)(a) and the following SSLs were identified:

AP-2 and 3/4 Statistically Significant Level Exceedances	
Appendix IV Parameter	**AP-2 and 3/4 Monitoring Well**
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-92, B-93, B-104D
Lithium	DGWC-47, DGWC-48, B-120D
Radium 226 + 228[1]	B-104D, B-122D

Note:
[1] An ASD for Combined Radium (226+228) at B-104D and B-109D was approved by GA EPD on June 15, 2023; refer to Section 4.3. An ASD for the occurrence of combined radium at B-111D and B-122D was submitted to GA EPD on May 28, 2024 and is pending review and approval.

Potential trends in SSL constituent concentrations were further evaluated by Groundwater Stats Consulting using the Sen's Slope/Mann Kendall trend test (Appendix E). The following statistically significant trends were identified for the noted well/constituent pairs, based on available data, following the September 2024 monitoring event:

- Increasing trends: Cobalt at DGWA-71, DGWC-9, DGWC-20, and B-56
- Decreasing trends: Beryllium at DGWC-70A, DGWC-47 and DGWC-48

  Cobalt at DGWA-53, DGWC-8, DGWC-10, DGWC-47, DGWC-48, and B-93

  Lithium at DGWC-47, DGWC-48 and B-120D

  Combined Radium at DGWA-53.

4.3 Alternate Source Demonstration

Following the provisions of 40 CFR § 257.95, *Alternate Source Demonstration for Combined Radium* was submitted to GA EPD on April 29, 2022, to address the SSL of combined radium in Site groundwater. Following GA EPD initial review and comments, a revised ASD was submitted to GA EPD on July 26, 2022 (Golder, 2022b). Based on site investigation data, additional supporting evidence as to the natural presence of combined radium, a *Supplemental ASD for Combined Radium* was submitted to GA EPD on May 22, 2023 (WSP, 2023a). The May 2023 ASD was approved for combined radium due to natural occurrence in groundwater wells B-104D and B-109D. A second ASD, was evaluated, following the options of § 257.95(g)(3)(ii) and § 391 3-4-.14(23)(c), and submitted to GA EPD on May 28, 2024 (WSP, 2024a), as appropriate to address the SSLs of combined radium in B-111D and B-122D following the September 2023 and January-February 2024 semi-annual events, and is pending review and approval by GA EPD.

5.0 ASSESSMENT MONITORING AND DELINEATION STATUS

To characterize the nature and extent of arsenic, beryllium, cobalt, lithium, radium, and historical selenium SSLs, multiple detection and assessment wells have been installed and sampled at the Site (WSP, 2023b); refer to the table below for constituent delineation status. Assessment wells were installed to delineate the vertical and horizontal extent of SSLs. The horizontal and vertical extent of the SSLs are currently delineated by data with concentrations less than GWPS, by virtue of flow gradient reversal toward AP-4, or both. Data from a newly installed temporary piezometer B-129 has further delineated the spatial extent of cobalt in the area to the east of DGWC-47 (Figure 7). An SSL of selenium was previously noted (prior to the first semi-annual sampling event in 2021) for AP-2 and 3/4 at DGWC-9, but statistical analyses, three consecutive concentrations below the selenium GWPS in this well prior to it going dry, and another measurement below GWPS in September 2024 prior to its abandonment indicate that there is no longer an SSL for selenium at DGWC-9. In addition, surface water has been sampled at multiple locations to demonstrate horizontal delineation in surface water bodies where proximity to surface water prevented installation of additional wells. Specific details regarding the delineation status at AP-2 and 3/4, including isoconcentration contours for each of the constituents with an exceedance of the GWPS, are discussed in the *Draft Remedy Selection Report* (WSP, 2023b) submitted to GA EPD on August 31, 2023 and are shown on Figures 5 through 9.

Detection / Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well(s)	Horizontal Delineation Well(s) / Surface Water Monitoring Location	Status of Delineation
DGWC-5	Beryllium	B-111D	B-98, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
DGWC-9[1]	Arsenic	B-101D	DGWC-11, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
DGWC-19	Cobalt	B-107D/B-122D	B-77, DW_US, DW_DS	Delineation complete with data less than GWMP
DGWC-20	Cobalt	B-108D/B-122D	B-83, DW_DS, CR-0.1	Delineation complete with data less than GWMP
DGWC-47	Beryllium	B-122D	B-77	Delineation complete with data less than GWMP
	Cobalt	B-122D	B-77, DW_US, DW_DS	Delineation complete with data less than GWMP
	Lithium	B-122D	B-77	Delineation complete with data less than GWMP
DGWC-48	Beryllium	B-104D/B-122D	B-83	Delineation complete with data less than GWMP
	Cobalt	B-122D	B-83, DW_DS, CR-0.1	Delineation complete with data less than GWMP
	Lithium	B-104D/B-122D	B-83	Delineation complete with data less than GWMP
B-56	Cobalt	B-101D/B-102D	B-82/DGWC-11, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
B-63	Cobalt	B-122D	B-77, DW_US	Delineation complete with data less than GWMP
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
	Cobalt	B-111D	B-97, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
	Cobalt	B-111D	B-98, DGWC-5, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4

Detection / Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well(s)	Horizontal Delineation Well(s) / Surface Water Monitoring Location	Status of Delineation
B-104D	Cobalt	B-122D	B-83, W_DS, CR-0.1	Delineation complete with data less than GWMP
B-104D	Combined Radium[3]	pending [3]	pending [3]	ASD[3]
B-120D	Lithium	B-125D	DGWC-4, Flow is toward AP-4[2]	Delineation complete with data less than GWMP and flow toward AP-4
B-122D	Combined Radium[4][3]	pending[3]	pending[3]	ASD[3]

Notes:

[1] Monitoring well DGWC-9 was dry during the September 2023 and January-February 2024 sampling events. A sample was obtained during the September 2024 event prior to abandonment. A replacement well DGWC-9A was installed per Georgia Rule 391-3-4-.10(6)(g).

[2] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.

[3] An Alternate Source Demonstration (ASD) and Supplemental ASD for Combined Radium at B-104D and B-109D has been documented for Plant McDonough (Golder, 2022b, WSP 2023a) and approved by GA EPD on June 15, 2023. An ASD has been submitted to GA EPD on May 28, 2024 (WSP, 2024a) in response to the recent SSL at B-111D and B-122D and is pending feedback from GA EPD.

Monitoring well B-120D was installed as a vertical delineation well B-109D. An SSL of lithium was identified at B-120D. Horizontal and vertical delineation for the lithium SSL at B-120D is complete with well DGWC-4 and well B-125D, respectively. Also note that groundwater flow is inward toward AP-4 at this location.

Statistical exceedances of radium in wells B-104D and B-109D and elevated concentrations of radium in other wells were demonstrated to be due to natural occurrence of radium at the Site. GA EPD approved the radium ASD demonstrating that radium is naturally occurring in bedrock beneath the Site for wells that had SSLs on June 13, 2023, which includes B-104D and B-109D. A second ASD was submitted to GA EPD on May 28, 2024, as appropriate to address the SSLs of combined radium in B-111D and B-122D following the 2023 second semi-annual event and the 2024 first semi-annual event. The May 2024 ASD for B-111D and B-122D is currently under review by GA EPD.

Based on data collected to date, there are no impacts to surface water by constituents with SSLs (arsenic and cobalt) at AP-2 and 3/4. The horizontal and vertical delineation of target SSL constituents is complete. Horizontal and vertical delineation based on review of analytical results, statistical analyses, and the isoconcentration contours is presented in more detail in Figures 5 to 9.

6.0 ASSESSMENT OF CORRECTIVE MEASURES

Following the requirements of 40 CFR § 257.96, Plant McDonough has initiated an Assessment of Corrective Measures (ACM) for arsenic, beryllium, cobalt, and lithium. Notification of this action was placed in the CCR operating record on July 9, 2020.

Prior the submission of the ACM report in December 2020, selenium was identified as an SSL at well DGWC-9 (Golder, 2020) and this SSL was incorporated into the ACM evaluation. Subsequent concentrations of selenium at DGWC-9 over three consecutive events prior to this well going dry and again in September 2024 prior to its abandonment in November 2024 have been below the GWPS. Therefore, selenium is no longer identified as an SSL and as such is no longer being evaluated as part of the ACM process.

Since initiation of the ACM, radium was also identified as an SSL. In response, an ASD has been approved for monitoring wells B-104D and B-109D and is pending for wells B-111D and B-122D by GA EPD to address the presence of combined radium in Site groundwater and as such is no longer being evaluated as part of the ACM process.

In accordance with 40 CFR § 257.97(a), remedy selection progress reports have previously been prepared and submitted concurrent with each semi-annual groundwater monitoring report to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy. A *Draft Remedy Selection Report* was submitted to GA EPD on August 31, 2023. The *Draft Remedy Selection Report* includes the following:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Golder 2020);
- An assessment of corrective action investigations completed;
- An evaluation of each corrective measure retained for further consideration following the completed investigations;
- A comparison of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness and ease of implementation; and
- A summary of the proposed corrective measure, or measures for AP-2 and 3/4.

The *Draft Remedy Selection Report* is currently under review by GA EPD. Since submission of the *Draft Remedy Selection Report*, a treatability study has been completed to evaluate injectate materials and dosages, the pre-design investigation (PDI) has been completed, and a pilot study work plan to evaluate the effectiveness of in-situ injections for corrective action has been developed.

PDI activities were conducted from March 22nd through 27th, 2024. Cascade Technical Services (Cascade) advanced ten (10) direct push technology (DPT) Waterloo Aquifer Profiling System (Waterloo*APS*) borings. Depth-discrete groundwater screening samples were also collected using stainless-steel Waterloo*APS* tooling and a peristaltic pump. Attempts were made to collect groundwater samples from each of the PDI boring locations, but insufficient yield precluded sample collection at some locations. The description of the PDI and the results are presented in the Plant McDonough Ash Pond Pre-Design Investigation Technical Memorandum in Appendix F. Results of the batch and column treatability studies is provided in Appendix G. These data were used to prepare a pilot study workplan submitted on February 6, 2025.

Terra Systems, Inc. (TSI) was subcontracted to perform a bench-scale treatability study to evaluate potential in-situ remediation approaches for reducing SSL constituents in AP-2 and 3/4 groundwater. Groundwater samples from monitoring well DGWC-48 and soil samples from soil borings drilled adjacent to the well were collected in November 2023 and submitted to TSI for testing. The treatability study evaluated reagents to neutralize or precipitate detected SSL constituents. The treatability study showed reductions in beryllium and lithium concentrations with the application of selected reagents. TSI's June 14, 2024 bench study report is presented in Appendix G.

7.0 MONITORING PROGRAM STATUS

Statistical evaluations of the groundwater monitoring data for AP-2 and 3/4 confirms SSIs of Appendix III groundwater monitoring parameters above background and SSLs of Appendix IV groundwater monitoring parameters above the established GWPS. AP-2 and 3/4 will continue to be monitored in accordance with the assessment monitoring program pursuant to 40 CFR § 257.95. An assessment of corrective measures was initiated following the provisions of 40 CFR § 257.96. Pursuant to 40 CFR 257.95(g)(1)(iv), the additional delineation wells may continue to be sampled as part of the ongoing semi-annual assessment monitoring program.

8.0 CONCLUSIONS AND FUTURE ACTIONS

This *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant McDonough-Atkinson – Ash Pond 2 and 3/4* was prepared to fulfill the requirements of US EPA CCR rule 40 CFR 257 Subpart D and Georgia EPD rule 391-3-4-.10.

The groundwater flow direction and rates interpreted during the September 2024 water level gauging events are consistent with the post closure model predictions. Groundwater flow is south toward the Chattahoochee River, consistent with pre-site development conditions. Although groundwater flow is toward the south, monitoring wells previously established for delineation will remain in the network during assessment monitoring until the ACM is complete and a long-term corrective action groundwater monitoring is established. The monitoring well network continues to effectively monitor the uppermost aquifer beneath AP-2 and 3/4.

Review of analytical results and statistical analyses developed for the Site indicates confirmed SSIs of Appendix III above background and SSLs of Appendix IV above the established GWPS. In accordance with 40 CFR § 257.96, Georgia Power has initiated an assessment of corrective measures study for the identified SSLs. Based on data collected to date, there are no impacts to surface water at Plant McDonough and the horizontal and vertical delineation of constituents exhibiting SSLs is complete. *Alternate Source Demonstration for Combined Radium* was approved by GA EPD in correspondence dated June 15, 2023 for monitoring wells B-104D and B-109D. A second ASD for the occurrence of combined radium at B-111D and B-122D was submitted for GA EPD review on May 28, 2024 and is pending review and approval by GA EPD.

Based on the findings presented herein, Plant McDonough will continue with assessment groundwater monitoring and reporting. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of corrective measures was submitted to GA EPD on August 31, 2023 and is pending review. A high-resolution site characterization has been completed and these data were used to prepare a pilot study workplan submitted to GA EPD on February 6, 2025. The next AP-2 and 3/4 semi-annual groundwater sampling event is tentatively scheduled for February 2025.

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Tables

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

WellID	Hydraulic Location	Screened Lithology	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Date of Installation
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK										
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.37	28.9	823.8	813.8	9/24/2016
DGWA-70A	Upgradient	Saprolite/PWR	1390481.4	2200591.6	808.52	805.67	59.3	756.8	746.8	5/10/2017
DGWA-71	Upgradient	Saprolite/PWR	1393963.3	2201714.8	863.84	861.22	43.8	827.8	817.8	2/28/2017
DGWC-37	Downgradient	Saprolite/PWR	1390482.2	2200919.8	766.21	763.64	39.7	734.3	724.3	11/28/2012
DGWC-38	Downgradient	Residual Soils	1390362.7	2201148.6	757.43	754.67	25.0	740.0	730.0	11/29/2012
DGWC-39	Downgradient	Residual Soils/Saprolite	1390303.6	2201540.1	759.89	756.93	21.2	746.1	736.1	11/6/2012
DGWC-40	Downgradient	Saprolite	1390625.7	2201825.9	779.06	776.12	34.9	751.6	741.6	11/5/2012
DGWC-67	Downgradient	Saprolite/PWR	1390953.8	2200830.7	766.70	766.80	56.3	720.5	710.5	3/14/2017
DGWC-68A	Downgradient	Saprolite	1391301.2	2200734.9	765.33	765.06	29.8	745.7	735.7	4/20/2017
DGWC-69	Downgradient	Saprolite/PWR	1391585.0	2200657.1	763.75	763.99	24.3	749.7	739.7	3/16/2017
DGWC-121	Downgradient	PWR/Upper Bedrock	1390739.7	2200849.4	764.16	764.52	50.0	724.8	714.8	3/22/2022
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK										
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.40	39.9	730.7	720.7	10/4/2016
B-100	Downgradient	Saprolite	1390254.8	2202242.1	777.95	775.32	44.8	740.5	730.5	7/8/2020
B-105D	Downgradient	Upper Bedrock	1390634.5	2201831.9	779.01	776.03	70.0	716.0	706.0	10/19/2020
B-112D	Downgradient	Upper Bedrock	1391564.2	2200664.1	765.58	765.98	55.0	721.3	711.3	3/22/2021

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

WellID	Hydraulic Location	Screened Lithology	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2 and AP-3/4) DETECTION MONITORING WELL NETWORK										
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.37	28.9	823.8	813.8	9/24/2016
DGWA-70A	Upgradient	Saprolite/PWR	1390481.4	2200591.6	808.52	805.67	59.3	756.8	746.8	5/10/2017
DGWA-71	Upgradient	Saprolite/PWR	1393963.3	2201714.8	863.84	861.22	43.8	827.8	817.8	2/28/2017
DGWC-2	Downgradient	PWR/Upper Bedrock	1393958.0	2202119.5	850.88	848.17	49.0	809.5	799.5	10/2/2012
DGWC-4	Downgradient	Saprolite	1394171.5	2202662.4	814.85	812.06	45.0	777.4	767.4	10/3/2012
DGWC-5	Downgradient	Saprolite/PWR/Upper Bedrock	1394306.3	2202965.1	791.75	788.64	30.0	768.9	758.9	10/4/2012
DGWC-8	Downgradient	Saprolite/PWR	1394322.2	2203882.1	826.38	824.02	49.1	785.3	775.3	10/10/2012
DGWC-9	Downgradient	Saprolite/PWR	1394055.9	2204170.0	824.35	821.86	30.0	802.3	792.3	10/10/2012
DGWC-10	Downgradient	Saprolite	1393818.3	2204201.1	823.55	820.82	45.4	785.8	775.8	10/11/2012
DGWC-11	Downgradient	Saprolite/PWR	1393547.1	2204166.2	800.57	797.99	49.1	759.2	749.2	10/15/2012
DGWC-12	Downgradient	Residual Soils/Saprolite	1393149.4	2204128.3	773.86	771.10	25.1	756.4	746.4	10/15/2012
DGWC-13	Downgradient	Saprolite/PWR	1392881.1	2204084.6	794.10	791.20	43.8	757.8	747.8	11/29/2012
DGWC-14	Downgradient	PWR/Upper Bedrock	1392574.2	2204013.3	792.40	789.69	34.3	765.8	755.8	12/18/2012
DGWC-15	Downgradient	PWR	1392544.1	2203679.0	824.50	821.43	67.1	764.7	754.7	11/29/2012
DGWC-17	Downgradient	Saprolite	1392645.6	2203051.0	837.05	834.14	44.5	799.9	789.9	1/9/2013
DGWC-19	Downgradient	Saprolite	1392342.6	2202601.0	825.46	822.87	39.8	793.5	783.5	3/12/2013
DGWC-20	Downgradient	Saprolite	1392164.5	2202315.6	822.14	819.66	39.7	790.6	780.6	3/5/2013
DGWC-21	Downgradient	PWR/Upper Bedrock	1392067.5	2202063.5	816.28	813.47	69.0	754.9	744.9	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.3	2201791.9	816.59	813.69	60.0	764.0	754.0	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.7	2201582.0	818.37	815.63	60.1	765.8	755.8	10/25/2012
DGWC-42	Downgradient	Saprolite	1391327.8	2201870.2	804.68	801.98	50.4	762.1	752.1	11/12/2012
DGWC-47	Downgradient	PWR/Upper Bedrock	1391553.8	2202610.5	797.45	794.35	28.8	776.0	766.0	6/23/2016
DGWC-48	Downgradient	Saprolite/PWR/Upper Bedrock	1391314.6	2202290.2	788.33	785.21	30.0	765.6	755.6	6/22/2016

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

WellID	Hydraulic Location	Screened Lithology	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2 and AP-3/4) ASSESSMENT MONITORING WELL NETWORK										
B-56	Downgradient	Saprolite	1393957.9	2204187.8	823.59	820.95	45.0	786.4	776.4	10/3/2016
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.40	39.9	730.7	720.7	10/4/2016
B-63	Downgradient	Saprolite/PWR	1390999.1	2202978.1	777.10	777.37	46.0	741.9	731.9	10/6/2016
B-66	Downgradient	Saprolite	1393858.2	2204277.5	815.90	813.33	55.3	768.3	758.3	11/16/2016
B-77	Downgradient	Residual Soils	1390948.7	2202942.0	776.86	777.12	42.0	745.1	735.1	9/17/2019
B-82	Downgradient	Saprolite	1393750.0	2204258.1	810.07	807.55	45.0	773.1	763.1	9/21/2019
B-83	Downgradient	Residual Soils/Saprolite	1390735.5	2202695.6	776.98	777.17	48.6	738.6	728.6	9/30/2019
B-88	Downgradient	Saprolite/PWR	1394401.1	2203738.3	820.07	816.80	72.0	754.8	744.8	11/15/2019
B-92	Downgradient	Residual Soils/Saprolite	1394392.7	2203026.7	785.08	785.30	25.0	770.7	760.7	12/11/2019
B-93	Downgradient	Residual Soils/Saprolite	1394348.7	2202946.7	789.07	789.19	29.2	770.3	760.3	12/12/2019
B-97	Downgradient	Upper Bedrock	1394430.0	2203008.3	786.29	786.50	31.7	765.2	755.2	2/11/2020
B-98	Downgradient	Saprolite/Upper Bedrock	1394392.5	2202934.0	789.67	789.81	19.4	780.8	770.8	2/10/2020
B-100	Downgradient	Saprolite	1390254.8	2202242.1	777.95	775.32	44.8	740.5	730.5	7/8/2020
B-101D	Downgradient	PWR/Upper Bedrock	1394063.6	2204168.2	824.29	821.24	75.0	756.3	746.3	11/12/2020
B-102D	Downgradient	Upper Bedrock	1393828.4	2204200.4	823.42	820.64	85.0	746.2	736.2	11/10/2020
B-104D	Downgradient	Upper Bedrock	1391318.3	2202298.5	787.90	785.31	60.0	735.3	725.3	10/20/2020
B-106D	Downgradient	Upper Bedrock	1394327.1	2203869.2	826.21	823.39	80.0	754.0	744.0	11/13/2020
B-107D	Downgradient	Upper Bedrock	1392334.5	2202596.4	823.38	820.44	85.8	745.3	735.3	10/28/2020
B-108D	Downgradient	Upper Bedrock	1392156.1	2202312.5	821.13	818.33	80.0	749.3	739.3	10/27/2020
B-111D	Downgradient	Upper Bedrock	1394303.6	2202956.4	791.84	788.99	85.0	714.8	704.8	11/3/2020
B-120D	Downgradient	Upper Bedrock	1394047.2	2202436.4	836.42	834.03	69.3	775.0	765.0	3/6/2021
B-122D	Downgradient	Lower Bedrock	1390992.8	2202975.4	777.03	777.32	79.8	707.5	697.5	3/24/2022
B-125D	Downgradient	Lower Bedrock	1394111.6	2202580.7	821.70	819.15	145.4	684.1	674.1	3/31/2023

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

WellID	Hydraulic Location	Screened Lithology	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Date of Installation
PIEZOMETERS										
B-3	Downgradient	Saprolite/Upper Bedrock	1394045.1	2202411.5	837.78	834.86	37.0	808.2	798.2	10/3/2012
B-6	Downgradient	Saprolite/PWR	1394419.5	2203266.5	789.47	786.45	35.4	761.5	751.5	10/9/2012
B-7	Downgradient	Residual Soils	1394374.6	2203596.1	809.16	806.04	25.2	791.2	781.2	10/9/2012
B-16	Downgradient	Saprolite	1392595.1	2203315.4	826.47	823.54	43.7	790.1	780.1	12/19/2012
B-18	Downgradient	Residual Soils/Saprolite	1392521.0	2202875.5	826.56	823.89	32.6	801.5	791.5	1/10/2013
B-24	Downgradient	Upper Bedrock	1392479.9	2201450.0	822.11	819.19	79.1	750.9	740.9	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.3	2201502.7	836.54	833.41	54.8	789.0	779.0	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.6	2201550.4	853.60	850.61	49.3	811.7	801.7	10/23/2012
B-28	Downgradient	PWR/Upper Bedrock	1391967.4	2201679.2	816.08	813.28	69.4	754.3	744.3	10/31/2012
B-29	Downgradient	Saprolite/PWR	1391890.0	2201422.0	816.43	813.47	54.4	769.4	759.4	1/11/2013
B-41	Downgradient	Saprolite	1390920.8	2201751.9	795.20	792.40	60.0	743.0	733.0	11/14/2012
B-50	Downgradient	Saprolite	1391657.1	2201841.0	809.67	809.20	35.2	784.4	774.4	6/24/2016
B-51	Downgradient	Saprolite/PWR	1390501.2	2200906.5	765.92	763.29	65.0	708.3	698.3	6/27/2016
B-52	Downgradient	PWR	1392308.3	2201314.8	822.89	820.18	50.0	781.3	771.3	9/28/2016
B-54	Downgradient	Saprolite/PWR/Upper Bedrock	1394423.5	2203140.7	785.46	782.54	34.2	758.7	748.7	9/26/2016
B-55	Downgradient	Saprolite	1394142.6	2204147.9	825.12	822.86	52.0	781.9	771.9	9/22/2016
B-57	Downgradient	Upper Bedrock	1391396.3	2202736.9	789.04	786.03	50.5	746.0	736.0	9/24/2016
B-58	Downgradient	Saprolite	1391125.7	2202426.5	788.17	785.20	45.0	750.7	740.7	9/23/2016
B-59	Downgradient	Saprolite/PWR/Upper Bedrock	1394349.1	2203001.1	788.00	785.41	30.3	765.2	755.2	9/23/2016
B-60	Downgradient	Saprolite/PWR	1391100.7	2202881.6	782.13	779.25	49.8	740.0	730.0	9/29/2016
B-61	Downgradient	Saprolite/PWR	1390957.8	2202505.8	782.09	778.95	51.9	737.5	727.5	9/29/2016
B-64	Downgradient	Saprolite	1394381.9	2203031.3	785.83	785.98	30.4	766.0	756.0	11/2/2016

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Georgia Power Company
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Cobb County, GA

WellID	Hydraulic Location	Screened Lithology	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Date of Installation
PIEZOMETERS										
B-65	Downgradient	Saprolite/PWR/Upper Bedrock	1394381.2	2204050.8	821.95	822.30	45.4	787.9	777.9	11/15/2016
B-68	Downgradient	Saprolite/PWR	1391298.2	2200714.2	758.68	759.05	18.0	751.1	741.1	3/16/2017
B-72	Downgradient	Saprolite	1391241.4	2200725.9	758.46	758.45	21.9	747.0	737.0	4/19/2017
B-73	Downgradient	Saprolite	1391351.8	2200699.4	759.21	759.16	15.8	753.8	743.8	4/19/2017
B-76	Downgradient	Saprolite	1390717.4	2202756.9	760.53	760.87	38.5	732.4	722.4	9/18/2019
B-78	Downgradient	Saprolite/Upper Bedrock	1394328.2	2202958.2	790.75	787.79	30.0	767.8	758.3	9/22/2019
B-79	Downgradient	Saprolite/PWR	1394458.6	2203223.0	788.66	785.84	34.9	760.9	751.4	9/21/2019
B-80	Downgradient	Saprolite/PWR	1394372.6	2203533.9	804.47	801.73	30.0	781.9	772.4	9/20/2019
B-81	Downgradient	Saprolite/PWR	1394364.9	2203741.1	820.56	817.64	50.0	778.5	768.5	9/22/2019
B-85	Downgradient	Saprolite/PWR/Upper Bedrock	1394433.4	2203134.5	782.54	782.71	34.5	758.5	748.5	11/18/2019
B-86	Downgradient	Saprolite/Upper Bedrock	1394480.0	2203206.6	784.29	784.52	34.1	760.4	750.4	11/18/2019
B-87	Downgradient	Saprolite/PWR	1394401.9	2203531.3	803.37	800.32	42.0	768.6	758.6	11/17/2019
B-89	Downgradient	Upper Bedrock	1394398.4	2204049.4	822.36	822.53	49.5	783.0	773.0	11/19/2019
B-90	Downgradient	Residual Soils/Saprolite	1394501.0	2203212.6	784.00	784.16	33.4	760.8	750.8	12/10/2019
B-91	Downgradient	Residual Soils/Saprolite	1394447.1	2203123.9	782.98	783.10	35.0	758.5	748.5	12/11/2019
B-94	Downgradient	Saprolite/PWR	1394402.0	2203513.7	801.74	799.12	45.2	764.5	754.5	1/23/2020
B-95	Downgradient	Saprolite	1394518.6	2203167.7	784.00	784.18	33.3	761.2	751.2	2/11/2020
B-96	Downgradient	Saprolite/PWR	1394478.7	2203099.3	784.92	785.19	33.1	762.1	752.1	2/10/2020
B-99	Downgradient	Fill	1394524.2	2203084.5	782.39	782.57	12.3	775.3	770.3	7/7/2020
B-103D	Downgradient	Lower Bedrock	1391543.5	2202614.4	795.96	793.77	70.0	733.8	723.8	10/15/2020

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

WellID	Hydraulic Location	Screened Lithology	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Date of Installation
PIEZOMETERS										
B-109D	Downgradient	Upper Bedrock	1393957.5	2202127.0	850.73	847.78	100.0	758.4	748.4	10/31/2020
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.55	65.0	711.6	701.6	11/17/2020
B-113D	Downgradient	Lower Bedrock	1391264.6	2200719.2	758.22	758.87	84.7	684.5	674.5	3/30/2021
B-115D	Downgradient	Lower Bedrock	1391265.3	2202580.7	789.17	786.43	79.5	717.2	707.2	3/20/2021
B-116D	Upgradient	Upper Bedrock	1390483.7	2200611.0	807.82	805.31	89.5	726.1	716.1	3/8/2021
B-117D	Upgradient	Upper Bedrock	1393963.8	2201727.3	863.82	861.23	75.0	796.5	786.5	3/17/2021
B-118	Upgradient	Upper Bedrock	1391219.3	2200449.7	807.70	804.99	75.2	740.1	730.1	3/9/2021
B-119D	Upgradient	Lower Bedrock	1391236.4	2200446.6	807.15	804.53	105.0	709.8	699.8	3/16/2021
B-123D	Downgradient	Lower Bedrock	1391234.4	2202608.4	781.80	778.85	160.0	668.9	618.9	4/4/2022

Notes:

1. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
2. bgs - Below Ground Surface; NAD 83 - North American Datum of 1983; NAVD 88 - North American Vertical Datum of 1988; PWR - Partially Weathered Rock
3. The Certified Well Survey data has been incorporated into this construction summary.
4. Ground surface elevations shown are the elevation of the survey nail.
5. Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
6. Well DGWC-9 was decommissioned and abandoned on November 19, 2024.

Table 2
Groundwater Event Summary
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Hydraulic Location	Well Designation	September 04 2024 - September 11 2024
			Assessment Event
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) DETECTION MONITORING WELL NETWORK			
DGWA-53	Upgradient	Detection	X
DGWA-70A	Upgradient	Detection	X
DGWA-71	Upgradient	Detection	X
DGWC-2	Downgradient	Detection	X
DGWC-4	Downgradient	Detection	X
DGWC-5	Downgradient	Detection	X
DGWC-8	Downgradient	Detection	X
DGWC-9	Downgradient	Detection	X
DGWC-10	Downgradient	Detection	X
DGWC-11	Downgradient	Detection	X
DGWC-12	Downgradient	Detection	X
DGWC-13	Downgradient	Detection	X
DGWC-14	Downgradient	Detection	X
DGWC-15	Downgradient	Detection	X
DGWC-17	Downgradient	Detection	X
DGWC-19	Downgradient	Detection	X
DGWC-20	Downgradient	Detection	X
DGWC-21	Downgradient	Detection	X
DGWC-22	Downgradient	Detection	X
DGWC-23	Downgradient	Detection	X
DGWC-42	Downgradient	Detection	X
DGWC-47	Downgradient	Detection	X
DGWC-48	Downgradient	Detection	X
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK			
B-56	Downgradient	Assessment	X
B-62	Downgradient	Assessment	X
B-63	Downgradient	Assessment	X
B-66	Downgradient	Assessment	X
B-77	Downgradient	Assessment	X
B-82	Downgradient	Assessment	X
B-83	Downgradient	Assessment	X
B-88	Downgradient	Assessment	X
B-92	Downgradient	Assessment	X
B-93	Downgradient	Assessment	X
B-97	Downgradient	Assessment	X

Table 2
Groundwater Event Summary
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Hydraulic Location	Well Designation	September 04 2024 - September 11 2024
			Assessment Event
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK			
B-98	Downgradient	Assessment	X
B-100	Downgradient	Assessment	X
B-101D	Downgradient	Assessment	X
B-102D	Downgradient	Assessment	X
B-104D	Downgradient	Assessment	X
B-106D	Downgradient	Assessment	X
B-107D	Downgradient	Assessment	X
B-108D	Downgradient	Assessment	X
B-111D	Downgradient	Assessment	X
B-120D	Downgradient	Assessment	X
B-122D	Downgradient	Assessment	X
B-125D	Downgradient	Assessment	X

Notes:

X - indicates well sampled during event

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

		September 2024	
Well ID	**Top of Casing Elevation (feet NAVD 88)**	**Depth to Water (feet, BTOC)**	**Groundwater Elevation (feet NAVD 88)**
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK			
DGWA-53	844.26	18.82	825.44
DGWA-70A	808.52	43.18	765.34
DGWA-71	863.84	34.84	829.00
DGWC-37	766.21	14.57	751.64
DGWC-38	757.43	7.15	750.28
DGWC-39	759.89	9.30	750.59
DGWC-40	779.06	20.48	758.58
DGWC-67	766.70	11.37	755.33
DGWC-68A	765.33	10.95	754.38
DGWC-69	763.75	6.80	756.95
DGWC-121	764.16	10.21	753.95
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK			
B-62	760.08	17.41	742.67
B-100	777.95	35.49	742.46
B-105D	779.01	20.09	758.92
B-112D	765.58	7.95	757.63
ASH POND 2 and ASH PONDS 3/4 (AP-2 and AP-3/4) DETECTION MONITORING WELL NETWORK			
DGWA-53	844.26	18.82	825.44
DGWA-70A	808.52	43.18	765.34
DGWA-71	863.84	34.84	829.00
DGWC-2	850.88	33.11	817.77
DGWC-4	814.85	26.52	788.33
DGWC-5	791.75	13.18	778.57
DGWC-8	826.38	38.19	788.19
DGWC-9	824.35	30.74	793.61
DGWC-10	823.55	26.46	797.09
DGWC-11	800.57	14.21	786.36
DGWC-12	773.86	11.29	762.57
DGWC-13	794.10	33.93	760.17
DGWC-14	792.40	20.62	771.78
DGWC-15	824.50	41.22	783.28
DGWC-17	837.05	39.42	797.63
DGWC-19	825.46	27.96	797.50
DGWC-20	822.14	25.85	796.29
DGWC-21	816.28	20.66	795.62
DGWC-22	816.59	24.45	792.14
DGWC-23	818.37	24.61	793.76
DGWC-42	804.68	31.33	773.35
DGWC-47	797.45	21.97	775.48
DGWC-48	788.33	16.69	771.64

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

		September 2024	
Well ID	**Top of Casing Elevation (feet NAVD 88)**	**Depth to Water (feet, BTOC)**	**Groundwater Elevation (feet NAVD 88)**
ASH POND 2 and ASH PONDS 3/4 (AP-2 and AP-3/4) ASSESSMENT MONITORING WELL NETWORK			
B-56	823.59	29.71	793.88
B-62	760.08	17.41	742.67
B-63	777.10	31.08	746.02
B-66	815.90	18.05	797.85
B-77	776.86	31.78	745.08
B-82	810.07	14.16	795.91
B-83	776.98	32.39	744.59
B-88	820.07	45.71	774.36
B-92	785.08	7.06	778.02
B-93	789.07	10.21	778.86
B-97	786.29	7.30	778.99
B-98	789.67	10.98	778.69
B-100	777.95	35.49	742.46
B-101D	824.29	33.64	790.65
B-102D	823.42	31.78	791.64
B-104D	787.90	8.86	779.04
B-106D	826.21	40.46	785.75
B-107D	823.38	25.77	797.61
B-108D	821.13	24.73	796.40
B-111D	791.84	13.14	778.70
B-120D	836.42	36.54	799.88
B-122D	777.03	31.32	745.71
B-125D	821.70	24.76	796.94
PIEZOMETERS			
B-3	837.78	37.96	799.82
B-6	789.47	12.37	777.10
B-7	809.16	Dry	Dry
B-16	826.47	38.49	787.98
B-18	826.56	26.71	799.85
B-24	822.11	25.15	796.96
B-25	836.54	19.58	816.96
B-26	853.60	29.46	824.14
B-28	816.08	32.89	783.19
B-29	816.43	31.50	784.93
B-41	795.20	26.91	768.29
B-50	809.67	24.46	785.21
B-51	765.92	13.95	751.97
B-52	822.89	32.79	790.10
B-54	785.46	7.89	777.57
B-55	825.12	27.24	797.88
B-57	789.04	20.87	768.17
B-58	788.17	21.66	766.51
B-59	788.00	10.85	777.15
B-60	782.13	32.66	749.47
B-61	782.09	21.29	760.80

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

		September 2024	
Well ID	**Top of Casing Elevation (feet NAVD 88)**	**Depth to Water (feet, BTOC)**	**Groundwater Elevation (feet NAVD 88)**
PIEZOMETERS			
B-64	785.83	8.02	777.81
B-65	821.95	14.20	807.75
B-68	758.68	4.52	754.16
B-72	758.46	2.26	756.20
B-73	759.21	5.10	754.11
B-76	760.53	16.58	743.95
B-78	790.75	12.63	778.12
B-79	788.66	9.82	778.84
B-80	804.47	24.73	779.74
B-81	820.56	45.86	774.70
B-85	782.54	4.58	777.96
B-86	784.29	4.71	779.58
B-87	803.37	23.32	780.05
B-89	822.36	11.75	810.61
B-90	784.00	4.15	779.85
B-91	782.98	4.88	778.10
B-94	801.74	22.02	779.72
B-95	784.00	3.92	780.08
B-96	784.92	6.94	777.98
B-99	782.39	5.16	777.23
B-103D	795.96	15.14	780.82
B-109D	850.73	41.63	809.10
B-110D	764.61	9.81	754.80
B-113D	758.22	1.91	756.31
B-115D	789.17	23.03	766.14
B-116D	807.82	45.35	762.47
B-117D	863.82	34.47	829.35
B-118	807.70	52.56	755.14
B-119D	807.15	48.74	758.41
B-123D	781.80	13.95	767.85

Notes:

1. Elevation data recorded in feet referenced to the North American Vertical Datum 1988 (NAVD 88)
2. Survey data for monitoring wells and piezometers provided by Metro Engineering.
3. BTOC indicates below top of casing.

Table 4
Groundwater Flow Velocity Calculations - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Gauging Event	Well Pair	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (Δ h) (ft)	Distance Between Well 1 and Well 2 (Δ l) (ft)	Hydraulic Gradient (Δ h / Δ l) (ft/ft)	Estimated Hydraulic Conductivity for Uppermost Aquifer (K) (ft/day)[5]	Estimated Effective Porosity (ne)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
September 2024	B-26 to DGWC-48	824.14	771.64	52.50	1938	0.027	0.69	0.2	0.09	34
September 2024	DGWA-53 to DGWC-13	825.44	760.17	65.27	2488	0.026	0.69	0.2	0.09	33

Notes:
ft = feet, ft/ft = feet/foot, ne = effective porosity
1. Δ h = Change in groundwater elevation
2. Δ l =Distance along flow path
3. i = Δ h / Δ l Hydraulic Gradient
4. Velocity = (i * K)/ne
5. Hydraulic conductivity based on historic aquifer performance tests (updated October 2024)
6. Assumed effective porosities for overburden was based on the default values recommended by US EPA for a silty sand-type soil (1996).
Assumed effective porosity for bedrock was derived from Daniel and Dahlen (2002) and Dowd and Marshall (1995).

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWA-53	DGWA-70A	DGWA-71	DGWC-2	DGWC-4	DGWC-5	DGWC-8	DGWC-9
	Sample Date	09/11/2024	09/04/2024	09/04/2024	09/09/2024	09/06/2024	09/06/2024	09/09/2024	09/11/2024
ANALYTE	UNITS								
APPENDIX III									
Boron	mg/L	0.042	< 0.012	< 0.012	0.34	3.7	2.7	0.57	0.48
Boron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	10.6	6.3	6.5	31.6	219	126	23.4	43.2
Calcium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	1.8	2.2	9.4	2.1	7.5	12.4	10.2	10.4
Fluoride	mg/L	0.060 J	0.059 J	0.060 J	0.093 J	0.051 J	0.23	0.076 J	0.81
pH, Field	SU	6.10	5.51	5.85	6.07	5.65	4.74	5.26	3.96
Sulfate	mg/L	11.5	< 0.50	9.9	89.1	708	558	103	281
TDS	mg/L	122	61.0	97.0	227	1290	977	241	458
APPENDIX IV									
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.0021 J	< 0.00054
Arsenic	mg/L	0.00091 J	< 0.00084	< 0.00084	0.0027 J	< 0.00084	0.0010 J	0.0019 J	0.013
Barium	mg/L	0.084	0.039	0.027	0.023	0.025	0.014	0.022	0.016
Beryllium	mg/L	< 0.000094	< 0.000094	0.00010 J	< 0.000094	0.00034 J	0.0071	0.00074	0.0049
Cadmium	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	0.00082	0.0010	0.00068	0.00058
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.0052	< 0.00032	< 0.00032	0.0021 J	0.0014 J	0.016	< 0.00032	0.27
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00023 J	< 0.00016	< 0.00082
Lithium	mg/L	0.0078 J	< 0.0016	< 0.0016	0.016 J	0.0035 J	0.0072 J	0.0036 J	0.022 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00025	< 0.00013	< 0.00013
Molybdenum	mg/L	0.010	< 0.00062	< 0.00062	0.0023 J	0.0029 J	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	1.58	0.174 U	0.593 U	1.41	1.71	0.712 U	1.12	1.26 U
Selenium	mg/L	< 0.00096	< 0.00096	< 0.00096	0.0015 J	< 0.00096	0.0059	0.0012 J	0.040
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.0019
Antimony, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lithium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/L	0.060 J	0.059 J	0.060 J	0.093 J	0.051 J	0.23	0.076 J	0.81

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWA-53	DGWA-70A	DGWA-71	DGWC-2	DGWC-4	DGWC-5	DGWC-8	DGWC-9
	Sample Date	09/11/2024	09/04/2024	09/04/2024	09/09/2024	09/06/2024	09/06/2024	09/09/2024	09/11/2024
ANALYTE	**UNITS**								
ADDITIONAL PARAMETERS									
Bicarbonate Alkalinity as CaCO3	mg/L	54.4	28.9	15.3	44.9	102	< 5.0	7.4	< 5.0
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	54.4	28.9	15.3	44.9	102	< 5.0	7.4	< 5.0
Iron	mg/L	1.7	< 0.025	0.027 J	< 0.025	< 0.025	< 0.025	< 0.025	0.049
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Magnesium	mg/L	3.8	2.6	0.97	6.4	29.1	22.1	12.1	4.2
Magnesium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	3.5	1.7	0.74	5.3	9.5	4.4	3.6	4.8
Potassium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	7.9	3.3	8.0	9.2	51.5	24.4	11.5	26.2
Sodium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. NA - Indicates substance not analyzed
6. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
7. 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.
8. 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.
9. B-129 is a temporary piezometer.

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
	Sample Date	09/11/2024	09/09/2024	09/05/2024	09/05/2024	09/10/2024	09/05/2024	09/10/2024	09/05/2024
ANALYTE	UNITS								
APPENDIX III									
Boron	mg/L	0.18 J	1.5	1.7	0.51	0.12	1.3	0.85	2.3
Boron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	198	61.2	32.9	28.9	11.1	30.2	16.4	106
Calcium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	11.6	11.0	7.9	11.5	3.8	20.5	18.3	15.6
Fluoride	mg/L	1.6	0.056 J	0.064 J	0.079 J	0.051 J	0.061 J	0.11	0.18
pH, Field	SU	4.58	5.53	5.79	5.58	5.68	5.79	5.01	4.79
Sulfate	mg/L	727	229	148	94.8	43.8	123	261	376
TDS	mg/L	1190	444	331	211	117	283	476	683
APPENDIX IV									
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	0.043	0.0022 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0048 J	0.0011 J
Barium	mg/L	0.025	0.043	0.035	0.022	0.060	0.037	0.030	0.022
Beryllium	mg/L	0.0081	0.00014 J	0.00013 J	< 0.000094	< 0.000094	< 0.000094	0.00059	0.0016
Cadmium	mg/L	0.00047 J	< 0.00010	0.00014 J	< 0.00010	< 0.00010	0.00010 J	0.00024 J	0.00030 J
Chromium	mg/L	0.0038 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	0.0033 J	0.0024 J
Cobalt	mg/L	0.099	0.00061 J	0.022	< 0.00032	< 0.00032	0.0020 J	0.016	0.052
Lead	mg/L	< 0.00082	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.0014
Lithium	mg/L	0.0054 J	0.0021 J	< 0.0016	0.0030 J	0.0044 J	0.0052 J	< 0.0016	0.0025 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	< 0.00062	< 0.00062	0.0074 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	2.60	0.811 U	0.935 U	0.791 U	0.719 U	0.715 U	0.265 U	0.365 U
Selenium	mg/L	0.17	< 0.00096	< 0.00096	0.0023 J	0.0015 J	< 0.00096	0.0070	0.0032 J
Thallium	mg/L	< 0.0019	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.00057 J
Antimony, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lithium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/L	1.6	0.056 J	0.064 J	0.079 J	0.051 J	0.061 J	0.11	0.18

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
	Sample Date	09/11/2024	09/09/2024	09/05/2024	09/05/2024	09/10/2024	09/05/2024	09/10/2024	09/05/2024
ANALYTE	**UNITS**								
ADDITIONAL PARAMETERS									
Bicarbonate Alkalinity as CaCO3	mg/L	< 5.0	15.1	35.1	22.7	16.1	18.0	< 5.0	< 5.0
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	< 5.0	15.1	35.1	22.7	16.1	18.0	< 5.0	< 5.0
Iron	mg/L	< 0.13	< 0.025	8.4	< 0.025	0.041	0.068	0.36	0.040 J
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	0.0	0.0	7.0	0.0	0.0	NA	0.0	0.0
Magnesium	mg/L	8.7	22.2	15.3	6.4	4.6	12.4	54.4	10
Magnesium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	4.3	4.5	6.0	4.3	3.7	4.3	4.4	4.1
Potassium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	15.9	22.4	10.9	16.6	8.0	21.2	19.8	41.2
Sodium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. NA - Indicates substance not analyzed
6. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
7. 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.
8. 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.
9. B-129 is a temporary piezometer.

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48	B-56
	Sample Date	09/05/2024	09/04/2024	09/09/2024	09/05/2024	09/05/2024	09/05/2024	09/10/2024	09/11/2024
ANALYTE	**UNITS**								
APPENDIX III									
Boron	mg/L	2.6	5.7	4.1	5.1	1.1	0.15	0.45	1.5
Boron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	110	81.9	55.5	105	33.0	23.8	53.8	19.8
Calcium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	26.2	18.0	16.3	11.7	17.8	3.4	5.8	7.2
Fluoride	mg/L	1.8	0.065 J	0.067 J	0.089 J	< 0.050	0.48	0.43	0.34
pH, Field	SU	4.22	5.62	5.60	6.11	5.05	4.19	4.35	4.82
Sulfate	mg/L	698	253	211	303	356	136	248	238
TDS	mg/L	1220	537	443	632	522	324	469	411
APPENDIX IV									
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.0014 J	< 0.00054	< 0.00054
Arsenic	mg/L	0.055	< 0.00084	0.0016 J	< 0.00084	< 0.00084	< 0.00084	0.0025 J	0.0019 J
Barium	mg/L	0.014	0.021	0.028	0.021	0.014	0.020	0.015	0.024
Beryllium	mg/L	0.010	0.00016 J	< 0.000094	0.00032 J	0.0027	0.0075	0.0053	0.0012
Cadmium	mg/L	0.0045	0.00077	0.00050 J	< 0.00010	0.00098	0.0031	0.0022	0.00034 J
Chromium	mg/L	0.0023 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	1.9	0.0087	0.0056	0.00088 J	0.010	0.22	0.29	0.069
Lead	mg/L	0.0017 J	0.0025	< 0.00016	< 0.00016	0.00021 J	0.00034 J	0.00086 J	< 0.00016
Lithium	mg/L	0.015 J	0.0057 J	0.0035 J	0.0048 J	0.0099 J	0.044	0.090	0.0056 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	< 0.00062	< 0.00062	0.0097 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	1.55	0.426 U	0.745 U	1.12	0.651 U	1.92	1.84	0.772 U
Selenium	mg/L	0.090	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0011 J	0.0018 J	0.013
Thallium	mg/L	< 0.0038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.00047 J	< 0.00038	< 0.00038
Antimony, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lithium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/L	1.8	0.065 J	0.067 J	0.089 J	< 0.050	0.48	0.43	0.34

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48	B-56
	Sample Date	09/05/2024	09/04/2024	09/09/2024	09/05/2024	09/05/2024	09/05/2024	09/10/2024	09/11/2024
ANALYTE	**UNITS**								
ADDITIONAL PARAMETERS									
Bicarbonate Alkalinity as CaCO3	mg/L	< 5.0	33.1	27.7	100	6.4	< 5.0	< 5.0	< 5.0
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	< 5.0	33.1	27.7	100	6.4	< 5.0	< 5.0	< 5.0
Iron	mg/L	3.2	< 0.025	< 0.025	< 0.025	0.042	3.1	3.7	0.10
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	0.0	0.0	0.0	0.0	0.0	3.0	4.0	0.0
Magnesium	mg/L	17.3	16.4	19.6	23.3	20.4	6.8	12.6	31.3
Magnesium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	10	6.8	6.4	8.5	5.7	5.4	13.2	4.5
Potassium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	13.0	23.8	28.1	26.6	75.7	7.9	19.8	19.4
Sodium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. NA - Indicates substance not analyzed
6. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
7. 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.
8. 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.
9. B-129 is a temporary piezometer.

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
	Sample Date	09/09/2024	09/06/2024	09/09/2024	09/11/2024	09/09/2024	09/06/2024	09/10/2024	09/04/2024
ANALYTE	UNITS								
APPENDIX III									
Boron	mg/L	0.059	0.42	2.0	0.30	0.34	0.27	2.4	2.4
Boron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	30.8	20.2	33.5	14.3	34.3	29.5	94.4	125
Calcium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	5.5	6.0	10	2.4	10	2.7	9.4	14.8
Fluoride	mg/L	0.18	0.15	0.11	< 0.050	0.074 J	0.092 J	0.056 J	0.35
pH, Field	SU	6.35	5.73	5.71	6.32	5.13	5.61	5.54	4.58
Sulfate	mg/L	44.2	56.9	227	7.0	346	94.1	474	470
TDS	mg/L	187	187	437	107	614	213	770	953
APPENDIX IV									
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	< 0.00084	0.0028 J	< 0.00084	0.0059	< 0.00084	< 0.00084	0.0019 J
Barium	mg/L	0.017	0.049	0.027	0.099	0.019	0.026	0.015	0.015
Beryllium	mg/L	0.00018 J	0.00035 J	0.00019 J	< 0.000094	0.0017	0.00034 J	0.0019	0.015
Cadmium	mg/L	< 0.00010	< 0.00010	0.00066	< 0.00010	0.00071	0.00025 J	0.0035	0.0011
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	0.0025 J	< 0.0019	< 0.0019
Cobalt	mg/L	< 0.00032	0.032	0.032	< 0.00032	0.00059 J	0.013	0.0080	0.061
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.0012	< 0.00016
Lithium	mg/L	0.0093 J	0.0050 J	< 0.0016	< 0.0016	< 0.0016	0.0019 J	0.013 J	0.013 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	2.14	1.03	0.0642 U	0.891 U	0.620 U	0.603 U	1.70	2.83
Selenium	mg/L	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0017 J	0.012	0.0018 J	0.0051
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Antimony, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Barium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Lithium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Thallium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/L	0.18	0.15	0.11	< 0.050	0.074 J	0.092 J	0.056 J	0.35

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
	Sample Date	09/09/2024	09/06/2024	09/09/2024	09/11/2024	09/09/2024	09/06/2024	09/10/2024	09/04/2024
ANALYTE	UNITS								
ADDITIONAL PARAMETERS									
Bicarbonate Alkalinity as CaCO3	mg/L	79.8	64.5	34.4	104	6.8	39.6	11.5	< 5.0
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	79.8	64.5	34.4	104	6.8	39.6	11.5	< 5.0
Iron	mg/L	6.2	6.1	< 0.025	28.4	< 0.025	0.034 J	0.10	< 0.025
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	5.0	6.0	0.0	4.5	0.0	0.0	0.5	0.0
Magnesium	mg/L	5.3	6.8	39.7	4.3	67.9	7.8	33.8	20.6
Magnesium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	2.6	2.5	5.2	1.3	6.5	2.3	9.4	6.1
Potassium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	10.6	11.2	24.1	6.8	19.0	8.7	26.3	25.3
Sodium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	< 0.022	0.040 J	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. NA - Indicates substance not analyzed
6. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
7. 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.
8. 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.
9. B-129 is a temporary piezometer.

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-93	B-97	B-98	B-100	B-101D	B-102D	B-104D	B-106D
	Sample Date	09/04/2024	09/04/2024	09/05/2024	09/05/2024	09/10/2024	09/10/2024	09/10/2024	09/09/2024
ANALYTE	**UNITS**								
APPENDIX III									
Boron	mg/L	2.5	3.6	0.82	0.19	1.1	2.2	0.23	0.72
Boron, Dissolved	mg/L	NA	NA	0.79	NA	NA	NA	NA	NA
Calcium	mg/L	123	237	74.8	41.6	98.0	74.4	153	26.3
Calcium, Dissolved	mg/L	NA	NA	72.0	NA	NA	NA	NA	NA
Chloride	mg/L	15.9	16.8	5.4	9.1	9.9	11.3	7.7	8.7
Fluoride	mg/L	0.34	0.14	0.12	0.069 J	0.072 J	0.060 J	0.34	0.076 J
pH, Field	SU	4.81	5.60	6.04	5.20	6.24	5.40	6.41	5.94
Sulfate	mg/L	480	661	155	322	371	256	457	91.6
TDS	mg/L	930	1320	370	581	646	474	825	216
APPENDIX IV									
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	0.0013 J	0.0023 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0024 J
Barium	mg/L	0.013	0.021	0.12	0.021	0.058	0.021	0.022	0.023
Beryllium	mg/L	0.012	0.0017	0.00020 J	0.00053	< 0.000094	0.00087	0.00088	< 0.000094
Cadmium	mg/L	0.00078	0.00063	0.00085	< 0.00010	< 0.00010	0.00071	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.034	0.0032 J	0.0013 J	0.031	0.0072	0.010	0.10	< 0.00032
Lead	mg/L	< 0.00016	< 0.00016	0.0014	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/L	0.0095 J	0.0049 J	0.0021 J	0.0019 J	0.015 J	0.010 J	0.034	0.0051 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	1.17 U	1.96	2.89	0.440 U	0.673 U	1.19 U	8.94	0.538 U
Selenium	mg/L	0.0023 J	0.0022 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Antimony, Dissolved	mg/L	NA	NA	0.00087 J	NA	NA	NA	NA	NA
Arsenic, Dissolved	mg/L	NA	NA	< 0.00084	NA	NA	NA	NA	NA
Barium, Dissolved	mg/L	NA	NA	0.11	NA	NA	NA	NA	NA
Beryllium, Dissolved	mg/L	NA	NA	< 0.000094	NA	NA	NA	NA	NA
Cadmium, Dissolved	mg/L	NA	NA	0.00075	NA	NA	NA	NA	NA
Chromium, Dissolved	mg/L	NA	NA	< 0.0019	NA	NA	NA	NA	NA
Cobalt, Dissolved	mg/L	NA	NA	0.00040 J	NA	NA	NA	NA	NA
Lead, Dissolved	mg/L	NA	NA	< 0.00016	NA	NA	NA	NA	NA
Lithium, Dissolved	mg/L	NA	NA	< 0.0016	NA	NA	NA	NA	NA
Mercury, Dissolved	mg/L	NA	NA	< 0.00013	NA	NA	NA	NA	NA
Molybdenum, Dissolved	mg/L	NA	NA	< 0.00062	NA	NA	NA	NA	NA
Selenium, Dissolved	mg/L	NA	NA	< 0.00096	NA	NA	NA	NA	NA
Thallium, Dissolved	mg/L	NA	NA	< 0.00038	NA	NA	NA	NA	NA
Fluoride	mg/L	0.34	0.14	0.12	0.069 J	0.072 J	0.060 J	0.34	0.076 J

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-93	B-97	B-98	B-100	B-101D	B-102D	B-104D	B-106D
	Sample Date	09/04/2024	09/04/2024	09/05/2024	09/05/2024	09/10/2024	09/10/2024	09/10/2024	09/09/2024
ANALYTE	UNITS								
ADDITIONAL PARAMETERS									
Bicarbonate Alkalinity as CaCO3	mg/L	5.1	67.2	73.2	< 5.0	41.0	17.1	62.1	34.6
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	5.1	67.2	73.2	< 5.0	41.0	17.1	62.1	34.6
Iron	mg/L	< 0.025	< 0.025	2.0	20.2	1.2	0.027 J	9.4	< 0.025
Iron, Dissolved	mg/L	NA	NA	0.19	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	NA	0.0	NA	7.0	1.5	0.0	6.0	0.0
Magnesium	mg/L	20.6	33.9	6.9	41.9	37.1	16.8	25.5	12.2
Magnesium, Dissolved	mg/L	NA	NA	6.5	NA	NA	NA	NA	NA
Potassium	mg/L	5.4	5.5	8.3	1.1	6.6	6.6	7.8	3.7
Potassium, Dissolved	mg/L	NA	NA	7.2	NA	NA	NA	NA	NA
Sodium	mg/L	27.7	42.5	11.6	26.9	23.2	22.0	21.3	13.2
Sodium, Dissolved	mg/L	NA	NA	10.8	NA	NA	NA	NA	NA
Sulfide	mg/L	< 0.022	< 0.022	0.029 J	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. NA - Indicates substance not analyzed
6. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
7. 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.
8. 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.
9. B-129 is a temporary piezometer.

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-107D	B-108D	B-111D	B-120D	B-122D	B-125D	B-129
	Sample Date	09/09/2024	09/09/2024	09/09/2024	09/09/2024	09/10/2024	09/09/2024	1/27/2025
ANALYTE	**UNITS**							
APPENDIX III								
Boron	mg/L	8.9	5.9	0.14	1.4	0.28	0.91	0.10
Boron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	73.7	75.6	91.0	95.0	50.2	126	NA
Calcium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	14.2	28.2	11.2	2.0	11.2	8.5	NA
Fluoride	mg/L	0.053 J	0.060 J	0.44	0.084 J	0.18	0.090 J	NA
pH, Field	SU	5.82	5.76	7.11	5.33	6.03	6.11	7.26
Sulfate	mg/L	272	266	219	89.5	104	404	NA
TDS	mg/L	563	575	528	654	324	879	NA
APPENDIX IV								
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.0012 J	NA
Arsenic	mg/L	0.0022 J	0.0026 J	0.0028 J	< 0.00084	< 0.00084	0.0012 J	NA
Barium	mg/L	0.043	0.043	0.029	0.017	0.041	0.042	NA
Beryllium	mg/L	< 0.000094	< 0.000094	< 0.000094	0.00079	0.00042 J	< 0.000094	NA
Cadmium	mg/L	< 0.00010	0.00015 J	< 0.00010	0.00081	< 0.00010	< 0.00010	NA
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	NA
Cobalt	mg/L	0.00087 J	0.0037 J	0.00040 J	0.0017 J	0.0065	0.0032 J	0.00076 J
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	NA
Lithium	mg/L	0.012 J	0.013 J	0.019 J	0.052	0.013 J	0.029 J	NA
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	NA
Molybdenum	mg/L	< 0.00062	< 0.00062	0.0080 J	< 0.00062	0.0020 J	0.0022 J	NA
Combined Radium 226 + 228	pCi/L	0.768 U	0.736 U	8.30	2.28	10.3	1.61	NA
Selenium	mg/L	< 0.00096	< 0.00096	< 0.00096	0.0054	< 0.00096	< 0.00096	NA
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	NA
Antimony, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Beryllium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Cobalt, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Lithium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Molybdenum, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Thallium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/L	0.053 J	0.060 J	0.44	0.084 J	0.18	0.090 J	NA

Table 5
Groundwater Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-107D	B-108D	B-111D	B-120D	B-122D	B-125D	B-129
	Sample Date	09/09/2024	09/09/2024	09/09/2024	09/09/2024	09/10/2024	09/09/2024	1/27/2025
ANALYTE	**UNITS**							
ADDITIONAL PARAMETERS								
Bicarbonate Alkalinity as CaCO3	mg/L	26.9	26.2	116	24.0	109	93.9	NA
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Total Alkalinity as CaCO3	mg/L	26.9	26.2	116	24.0	109	93.9	NA
Iron	mg/L	0.38	0.42	2.0	0.033 J	9.5	8.5	NA
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	0.5	0.25	2.0	0.0	7.0	7	NA
Magnesium	mg/L	28.5	31.2	8.6	19.5	8.9	24.2	NA
Magnesium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	6.1	5.9	6.2	8.3	3.2	12.3	NA
Potassium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	20.0	18.5	50.2	29.2	23.6	60.4	NA
Sodium, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfide	mg/L	0.090 J	< 0.022	< 0.022	< 0.022	< 0.022	0.058 J	NA

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. NA - Indicates substance not analyzed
6. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
7. 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.
8. 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.
9. B-129 is a temporary piezometer.

Table 6
Surface Water Analytical Data Summary - September 2024
Georgia Power Company
Plant McDonough - Ash Ponds 2 and 3/4
Cobb County, GA

Sample Location		CR+0.4	CR+0.2	Dewatering Downstream (DW_DS)	Dewatering Upstream (DW_US)	CR-0.1	CR-0.2	CR-0.5
Sample Date		09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
ANALYTE	UNITS							
APPENDIX III								
Boron	mg/L	0.051	0.059	0.13	0.065	< 0.040	< 0.040	< 0.040
Calcium	mg/L	7.4	7.5	9.2	7.7	6.4	6.2	6.5
Chloride	mg/L	15.7	15.8	17.7	15.8	14.9	14.9	14.9
Fluoride	mg/L	0.14	0.14	0.15	0.14	0.13	0.13	0.14
pH, Field	SU	7.29	7.14	7.29	7.21	7.15	7.26	7.31
Sulfate	mg/L	12.0	12.7	19.2	13.4	9.1	9.1	9.5
TDS	mg/L	89.0	94.0	100	94.0	85.0	81.0	84.0
APPENDIX IV								
Arsenic	mg/L	< 0.0050	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Additional Parameters								
Alkalinity Total as CaCO3	mg/L	28.3	29.0	30.4	28.8	27.0	27.2	27.1
Bicarbonate Alkalinity as CaCO3	mg/L	28.3	29.0	30.4	28.8	27.0	27.2	27.1
Magnesium	mg/L	3.3	3.2	3.9	3.3	2.9	2.8	2.8
Potassium	mg/L	5.1	4.9	5.4	5.0	4.8	4.5	4.6
Sodium	mg/L	15.0	15.4	17.1	15.4	14.7	14.1	14.0

Notes:

mg/L - milligrams per liter, SU - standard units

NA - Indicates substance not analyzed

TDS - Total Dissolved Solids

< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.

Surface water samples were collected by Arcadis, on behalf of Georgia Power.

Table 7
Summary of Background Levels and GWPS
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Analyte	Units	US EPA MCL	Federal CCR Rules Specified GWPS	AP-2, 3/4 Background September 2024[1]	AP-2, 3/4 GWPS September 2024
Antimony	mg/L	0.006		0.0045[2]	0.006
Arsenic	mg/L	0.01		0.0054[2]	0.01
Barium	mg/L	2		0.19	2
Beryllium	mg/L	0.004		0.0009[2]	0.004
Cadmium	mg/L	0.005		0.0005[2]	0.005
Chromium	mg/L	0.1		0.005[2]	0.1
Cobalt	mg/L	NA	0.006	0.024[2]	0.024
Fluoride	mg/L	4		0.42	4
Lead	mg/L	NA	0.015	0.001[2]	0.015
Lithium	mg/L	NA	0.04	0.03	0.04
Mercury	mg/L	0.002		0.0002[2]	0.002
Molybdenum	mg/L	NA	0.1	0.0409[2]	0.1
Radium (226 + 228)	pCi/L	5		4.62	5
Selenium	mg/L	0.05		0.005[2]	0.05
Thallium	mg/L	0.002		0.001[2]	0.002

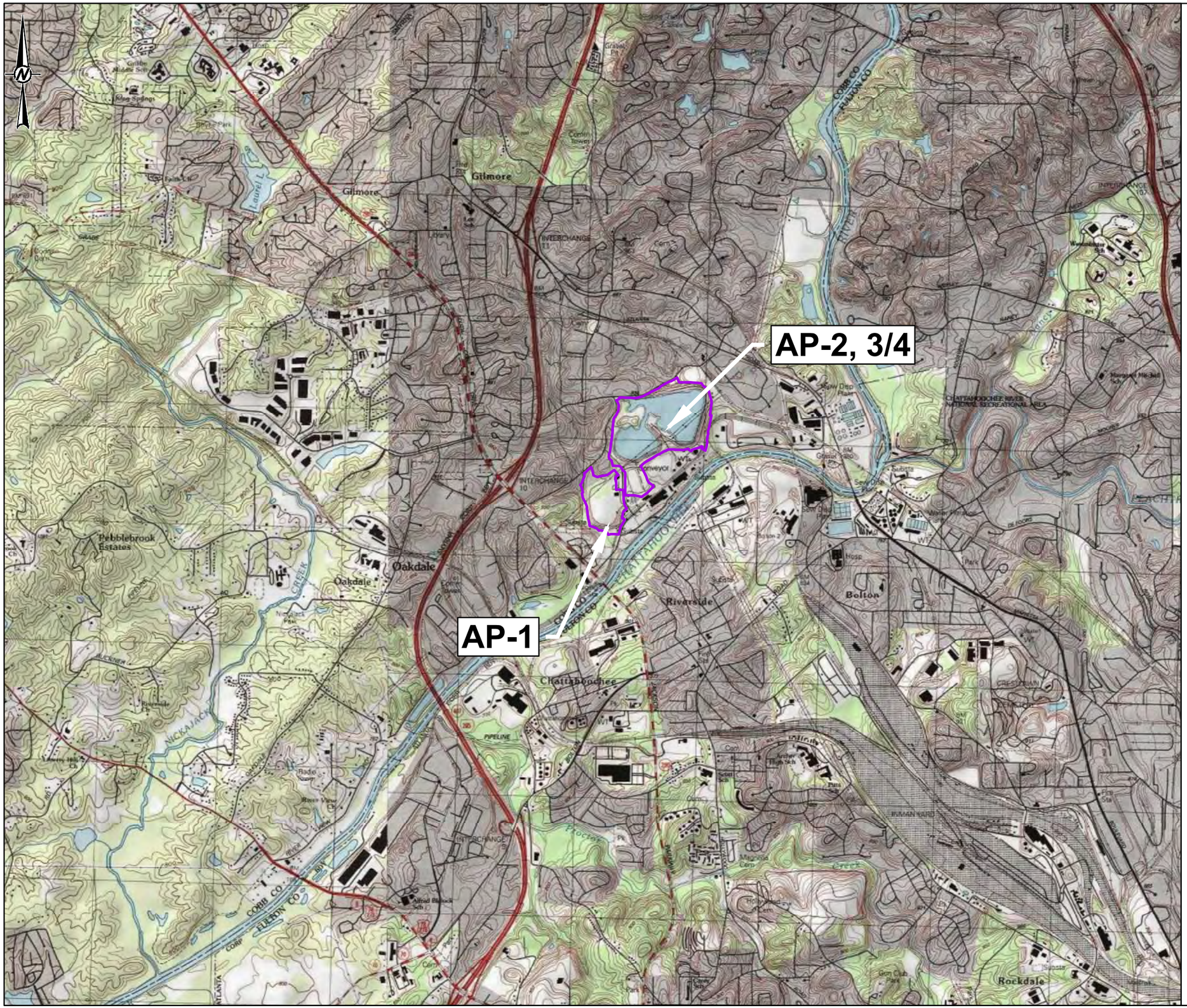
Notes:
mg/L = milligrams per liter; pCi/L = picocuries per liter; NA = Not Available

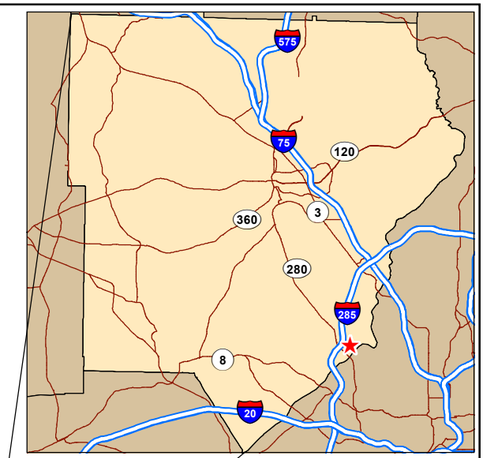
GWPS = Groundwater Protection Standard; US EPA MCL = United States Environmental Protection Agency Maximum Contaminant Level

[1] 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).

[2] The background tolerance limit (TL) used to evaluate GWPS for this analyte equals the laboratory specified reporting limit (RL). Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used when the data set contains greater than 50% non-detect results for this analyte. Under this approach, the TL equals the highest value reported, for which is the laboratory RL.

Figures





REFERENCE

SERVICE LAYER CREDITS: COPYRIGHT:© 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED

0 0.5 1

1 INCH=0.5 MILES

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE LOCATION MAP

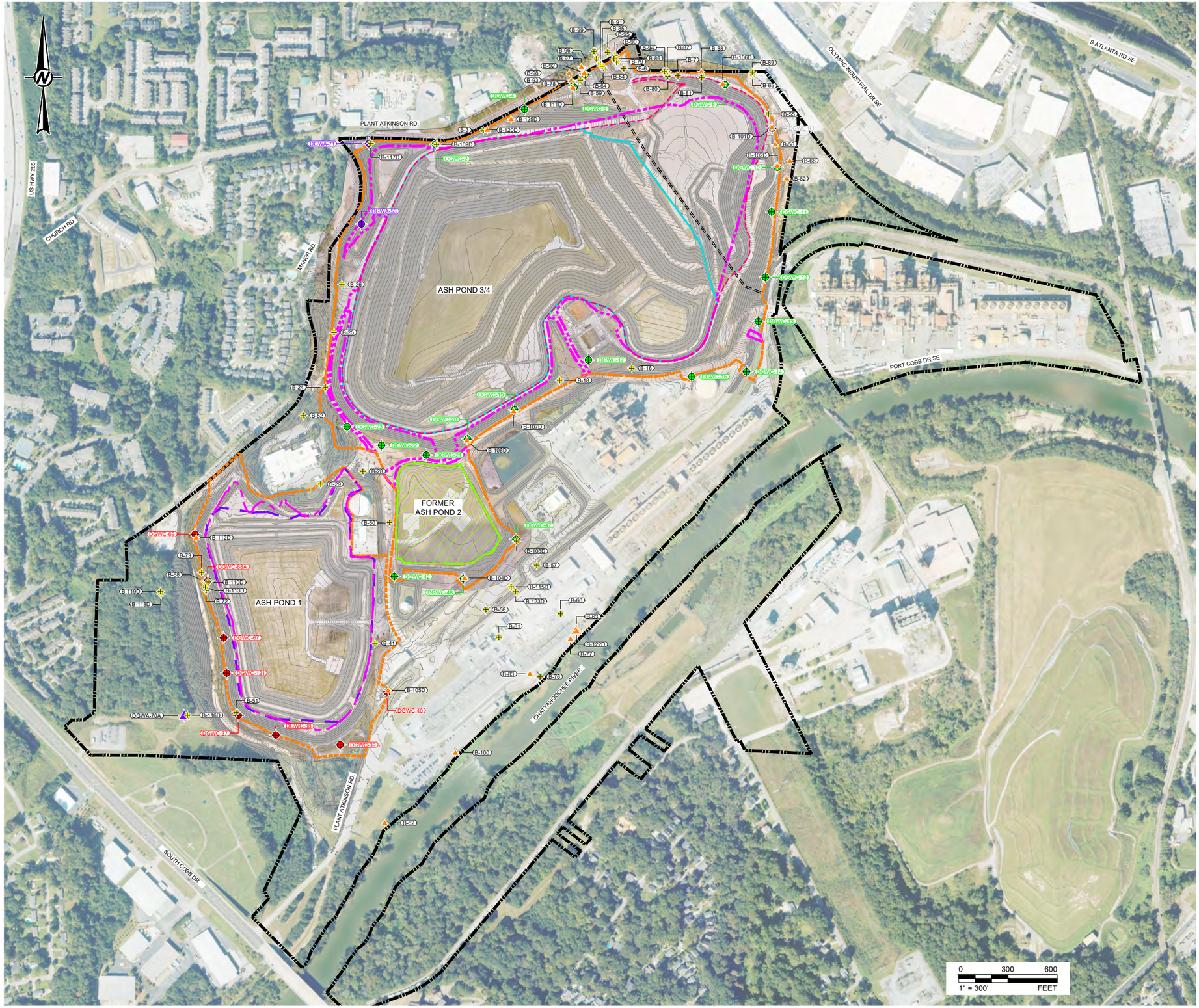
CONSULTANT
wsp

YYYY-MM-DD	2022-4-26
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE 1



LEGEND

- EXISTING CONTOURS (SEE REFERENCE 2)
- PROPERTY BOUNDARY (SEE REFERENCE 1)
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- FINAL CLOSURE CCR LIMITS
- PERMIT BOUNDARY
- FINAL COVER SYSTEM LIMITS
- POST CLOSURE CCR LIMITS
- DGWA-X — UPGRADIENT WELL
- DGWC-X — AP-1 MONITORING WELL
- DGWC-X — AP-2, 3/4 MONITORING WELL
- B-XX — ASSESSMENT WELLS
- B-XX — PIEZOMETER
- DGWC-9 — ABANDONED MONITORING WELL (NOV. 2024)
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 2/28/2024

NOTES

1. EXISTING TOPOGRAPHIC CONTOUR INTERVAL – 1 FOOT.
2. CLOSURE ACTIVITIES FOR AP-1 WERE INITIATED IN JANUARY 2016 AND FINAL COVER CONSTRUCTION ACTIVITIES WERE COMPLETED IN 2017. COMPLETION OF FINAL POST COVER CONSTRUCTION ACTIVITIES AND IMPROVEMENTS AT AP-1 ARE SUBSTANTIALLY COMPLETE. A PLANNED BARRIER WALL INSTALLATION IS CURRENTLY UNDER REVIEW WITH EPD.
3. CLOSURE ACTIVITIES FOR AP-2 WERE INITIATED IN JANUARY 2016. AP-2 CLOSURE ACTIVITIES CONSISTED OF CLOSURE BY REMOVAL OF CCR, WHERE CCR REMOVED FROM AP-2 WAS PLACED IN THE ADJACENT UNITS AP-1 AND AP-3. CLOSURE CONSTRUCTION ACTIVITIES AT AP-2 WERE COMPLETED IN 2017. BACKFILLING OF THE AP-2 FOOTPRINT WAS COMPLETE IN Q4 2023.
4. CLOSURE ACTIVITIES FOR AP-3 AND AP-4 WERE INITIATED IN JANUARY 2016. AP-3 AND AP-4 ARE CURRENTLY UNDERGOING CLOSURE AS A COMBINED UNIT AP-3/4.
5. DATA PRESENTED FOR CCR UNIT AP-1 IS INCLUDED FOR REFERENCE ONLY. THIS DATA SHOULD NOT BE CONSIDERED FOR PERMITTING OF CCR UNITS AP-2 AND AP-3/4.

REFERENCES

1. APPROXIMATE PROPERTY BOUNDARY PROVIDED BY SOUTHERN COMPANY SERVICES (2017).
2. EXISTING TOPOGRAPHY, AND CONTOUR ELEVATIONS FOR ASH PONDS 1 THROUGH 4 AREAS WERE PROVIDED BY GEORGIA POWER. THE DATE OF THE SURVEY, PROVIDED AND SHOWN ON THIS SET OF PLANS, FOR AP-1 IS AUGUST 31, 2022, AND AP-2, AP-3/4 IS NOVEMBER 2, 2022. AERIAL IMAGERY FOR AP-1, AP-2, AND AP-3/4, PROVIDED BY GEORGIA POWER, IMAGE DATED JUNE 20, 2024; SURROUNDING AREAS SOURCE BY Earthexplorer.USGS.GOV IMAGE DATED OCTOBER 7, 2023. THE TOPOGRAPHIC CONTOUR INTERVALS IS 1 FOOT.
3. SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020-2023.
4. COORDINATES SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET); ELEVATIONS DISPLAY IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (FEET NAVD88).

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH - ATKINSON

Georgia Power

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTIONS REPORT - ASH POND 2 AND 3/4

TITLE
PLANT MCDONOUGH CCR REMOVAL AREA

CONSULTANT
wsp

YYYY-MM-DD	2025-02-14
DESIGNED	YCS
PREPARED	CRP
CHECKED	RNQ
REVIEWED / APPROVED	DLP

PROJECT NO. 31406440.MCD23
REV.
FIGURE 2

0 1 in
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- DEWATERING WELL
- SURFACE WATER MONITORING LOCATION
- ABANDONED WELL
- STAFF GAUGE
- SURFACE WATER STREAM
- PERMIT BOUNDARY
- PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).

3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, APRIL 2021, MAY 2022, MAY 2023, AND JANUARY 2025.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP

CONSULTANT

wsp

YYYY-MM-DD	2025-02-11
PREPARED	YCS
DESIGN	DLP
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE 3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSI B

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- DEWATERING WELL
- ABANDONED WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
- SURFACE WATER STREAM
- PERMIT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 10-FOOT CONTOUR
- EXISTING TOPOGRAPHY 2-FOOT CONTOUR

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER ELEVATION MEAUSREMENTS OBTAINED SEPTEMBER 3, 2024 BY WSP.

3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT-NAVD88).

4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND THEIR GROUNDWATER ELEVATIONS ARE NOT USED FOR CONTOURING.

5. GROUNDWATER ELEVATIONS FROM PIEZOMETERS B-89, B-95, B-96, B-99 AND DEWATERING WELLS (DW-D1, DW-D2, DW-D3, AND DW-D4) ARE NOT USED FOR CONTOURING.

6. WELL DGWC-9 WAS DECOMMISSIONED AND ABANDONED IN NOVEMBER 2024.

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).

3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, APRIL 2021, MAY 2022, MAY 2023, AND JANUARY 2025.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE POTENTIOMETRIC MAP – SEPTEMBER 3, 2024

CONSULTANT
wsp

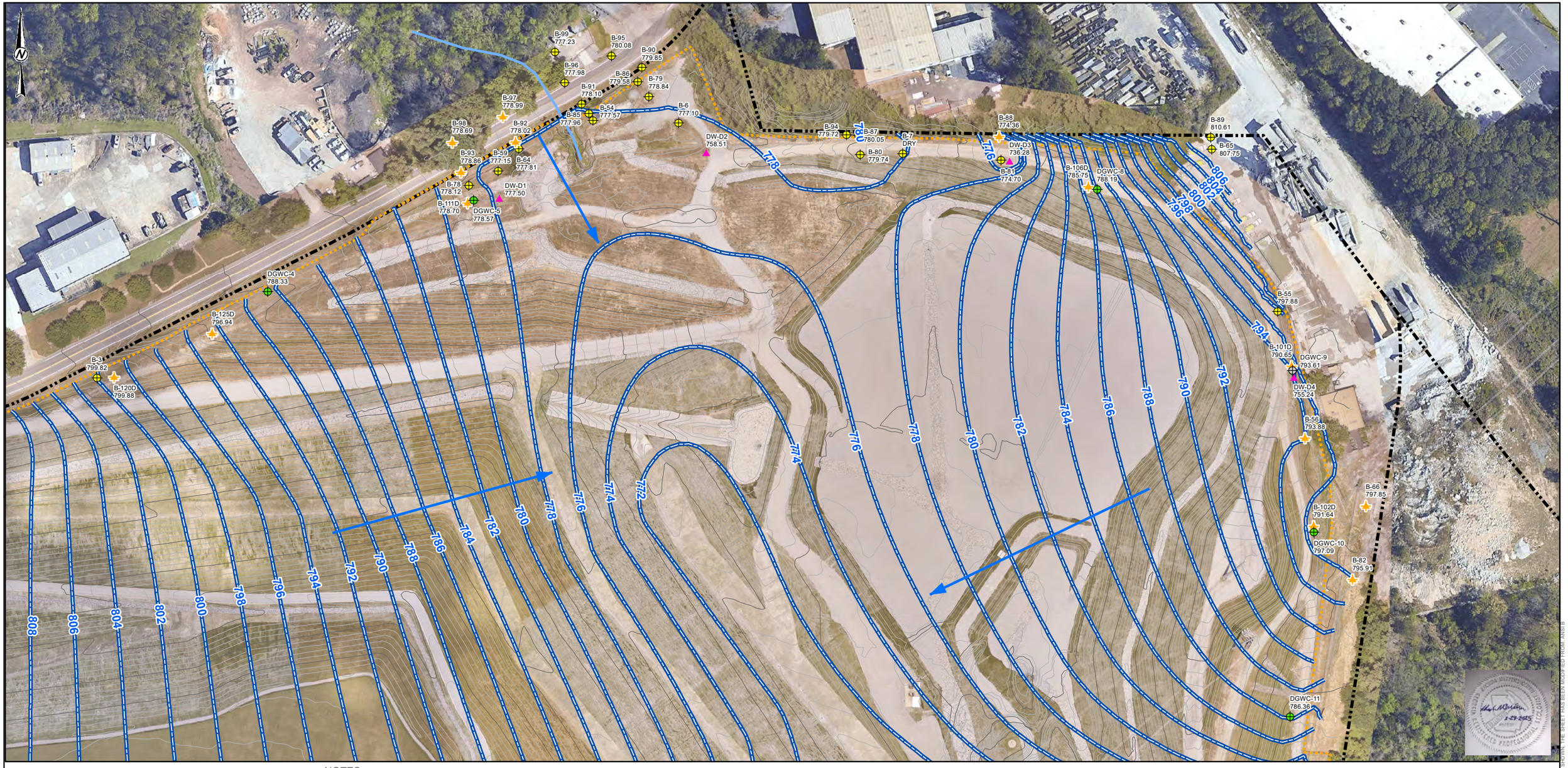
YYYY-MM-DD	2025-02-11
PREPARED	YCS
DESIGN	SEB
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **4A**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- DEWATERING WELL
- ABANDONED WELL
- GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- SURFACE WATER STREAM
- PERMIT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 10-FOOT
- EXISTING TOPOGRAPHY 2-FOOT

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEAUSREMENTS OBTAINED SEPTEMBER 3, 2024 BY WSP.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT-NAVD88).
4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND THEIR GROUNDWATER ELEVATIONS ARE NOT USED FOR CONTOURING.
5. GROUNDWATER ELEVATIONS FROM PIEZOMETERS B-89, B-95, B-96, B-99 AND DEWATERING WELLS (DW-D1, DW-D2, DW-D3, AND DW-D4) ARE NOT USED FOR CONTOURING.
6. WELL DGWC-9 WAS DECOMMISSIONED AND ABANDONED IN NOVEMBER 2024.

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, APRIL 2021, MAY 2022 AND 2023, AND JANUARY 2025.

0 140 280
1"=140 FT FEET

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
(INSET) SITE POTENTIOMETRIC MAP SEPTEMBER 3, 2024

CONSULTANT
wsp

YYYY-MM-DD	2025-02-11
PREPARED	YCS
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RNQ

PROJECT NO. CONTROL
31406440.MCD23

REV.
0

FIGURE
4B

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSI B

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- ABANDONED WELL
- 0.01 ARSENIC GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPTEMBER 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE SEPTEMBER 2024 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2024 WATER LEVELS.

Analyte	Units	GWPS
Arsenic	mg/L	0.01

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, MAY 2021, MAY 2022 AND 2023, AND JANUARY 2025.

0 400 800

1 IN= 400 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

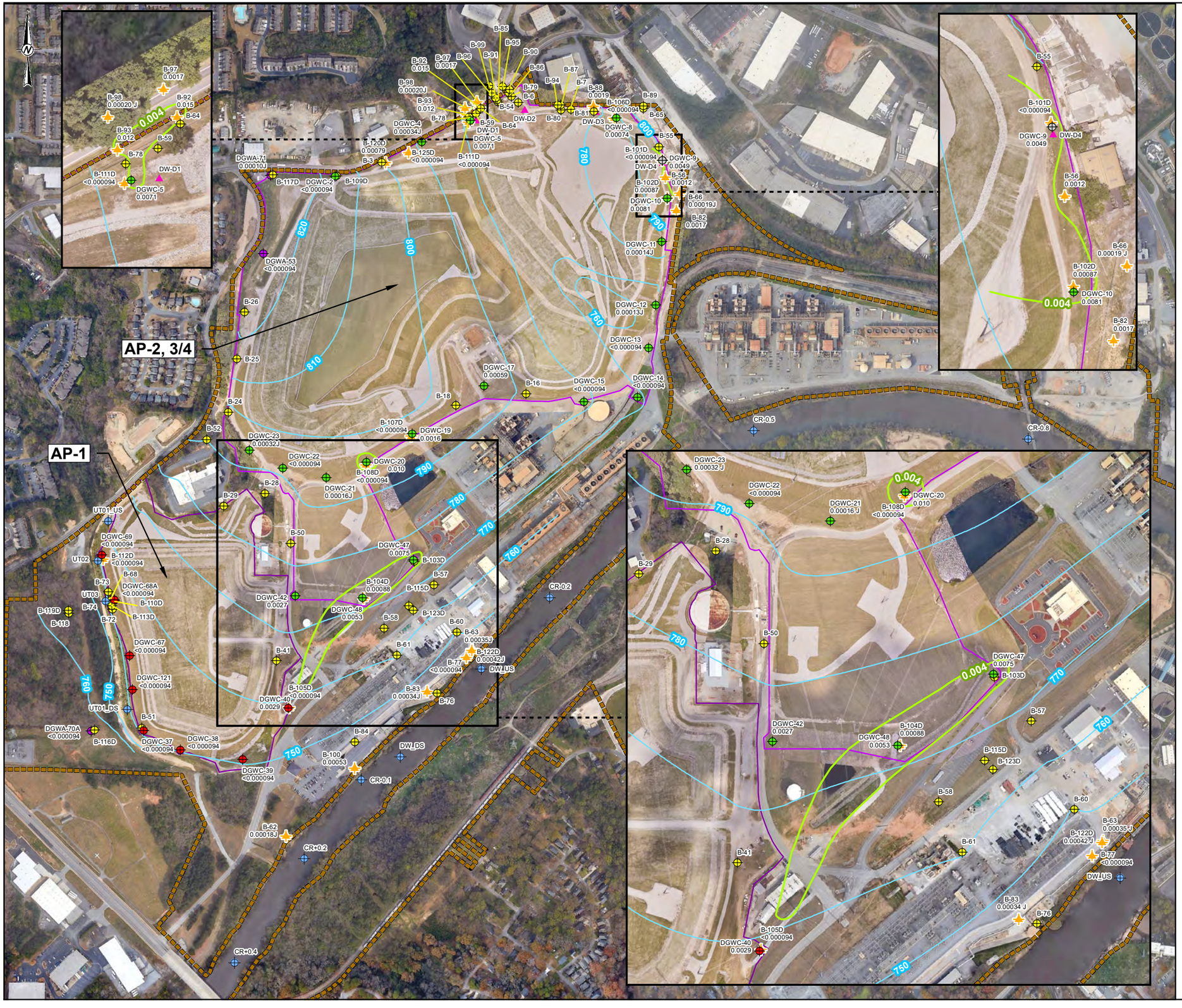
TITLE
ARSENIC ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2024

CONSULTANT
wsp

YYYY-MM-DD	2025-02-11
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23
Rev. 0
FIGURE 5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- ABANDONED WELL
- 0.004 BERYLLIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPTEMBER 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.

3. DATA SHOWN REPRESENT THE SEPTEMBER 2024 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.

4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2024 WATER LEVELS.

Analyte	Units	GWPS
Beryllium	mg/L	0.004

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).

3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, MAY 2021, MAY 2022 AND 2023, AND JANUARY 2025.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
BERYLLIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2024

CONSULTANT
wsp

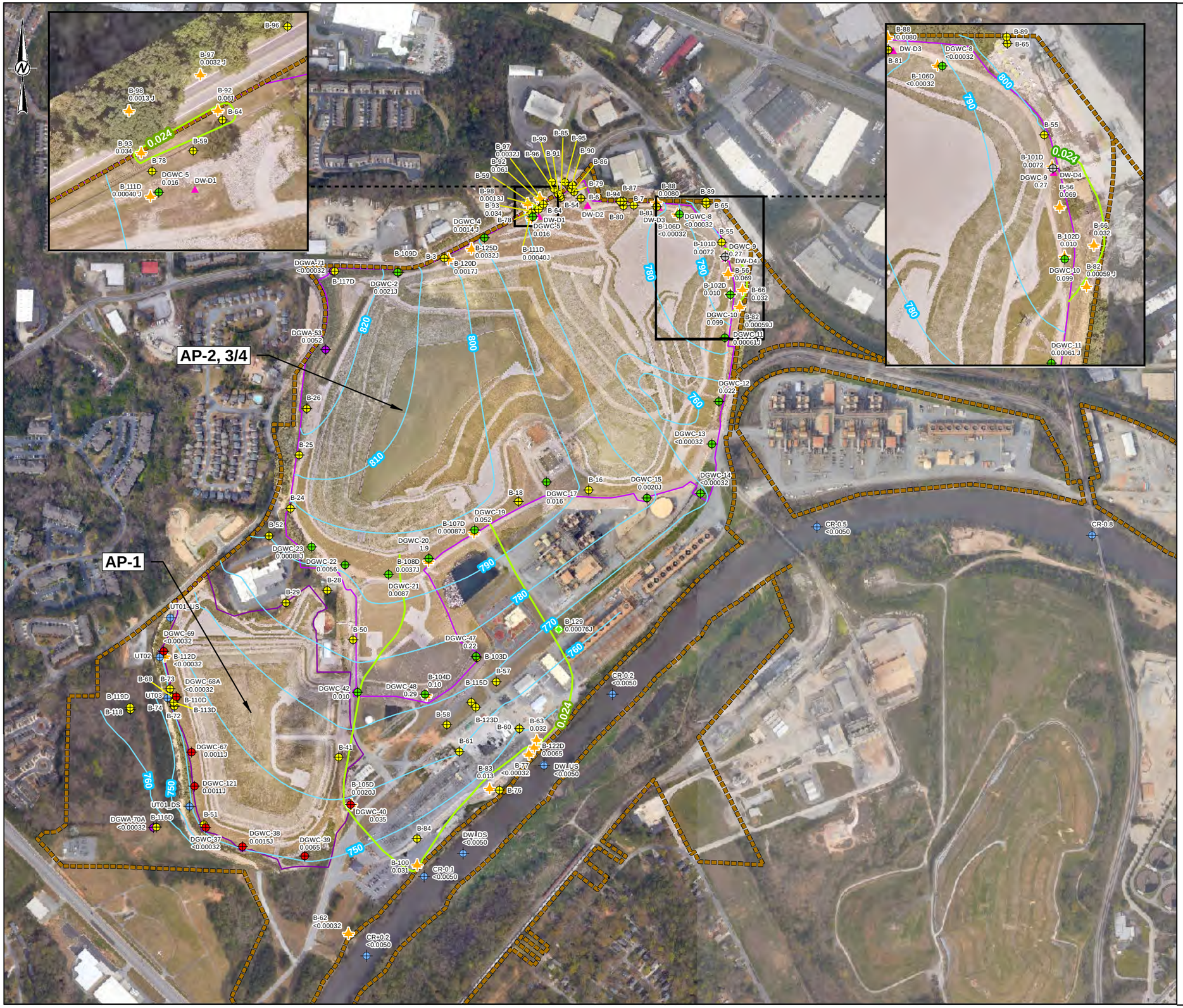
YYYY-MM-DD	2025-02-11
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE 6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- ABANDONED WELL
- TEMPORARY WELL WITH PRELIMINARY COBALT DATA
- 0.024 COBALT GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPTEMBER 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD. RSL = (FEDERAL REGIONAL SCREENING LEVEL)

3. DATA SHOWN REPRESENT THE SEPTEMBER 2024 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA. DATA FOR B-129 IS FROM JANUARY 27, 2025.

4. GWPS IS EQUAL TO SITE SPECIFIC BACKGROUND CONCENTRATION AS THERE IS NO MCL AND THE RSL IS BELOW SITE SPECIFIC BACKGROUND

5. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

6. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2024 WATER LEVELS.

7. ISOCONCENTRATION CONTOURS ARE APPOXIMATE BASED ON AVAILABLE SITE DATA FROM THE SPECIFIED TIME PERIOD.

Analyte	Units	GWPS
Cobalt	mg/L	0.024

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).

3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, MAY 2021, MAY 2022 AND 2023, AND JANUARY 2025.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
COBALT ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2024

CONSULTANT
wsp

YYYY-MM-DD	2025-02-20
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23
Rev. 0
FIGURE 7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSI B
1 in
0

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- ABANDONED WELL
- 0.04 LITHIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPTEMBER 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE SEPTEMBER 2024 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2024 WATER LEVELS.

Analyte	Units	GWPS
Lithium	mg/L	0.04

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, MAY 2021, MAY 2022 AND 2023, AND JANUARY 2025.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
LITHIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2024

CONSULTANT
wsp

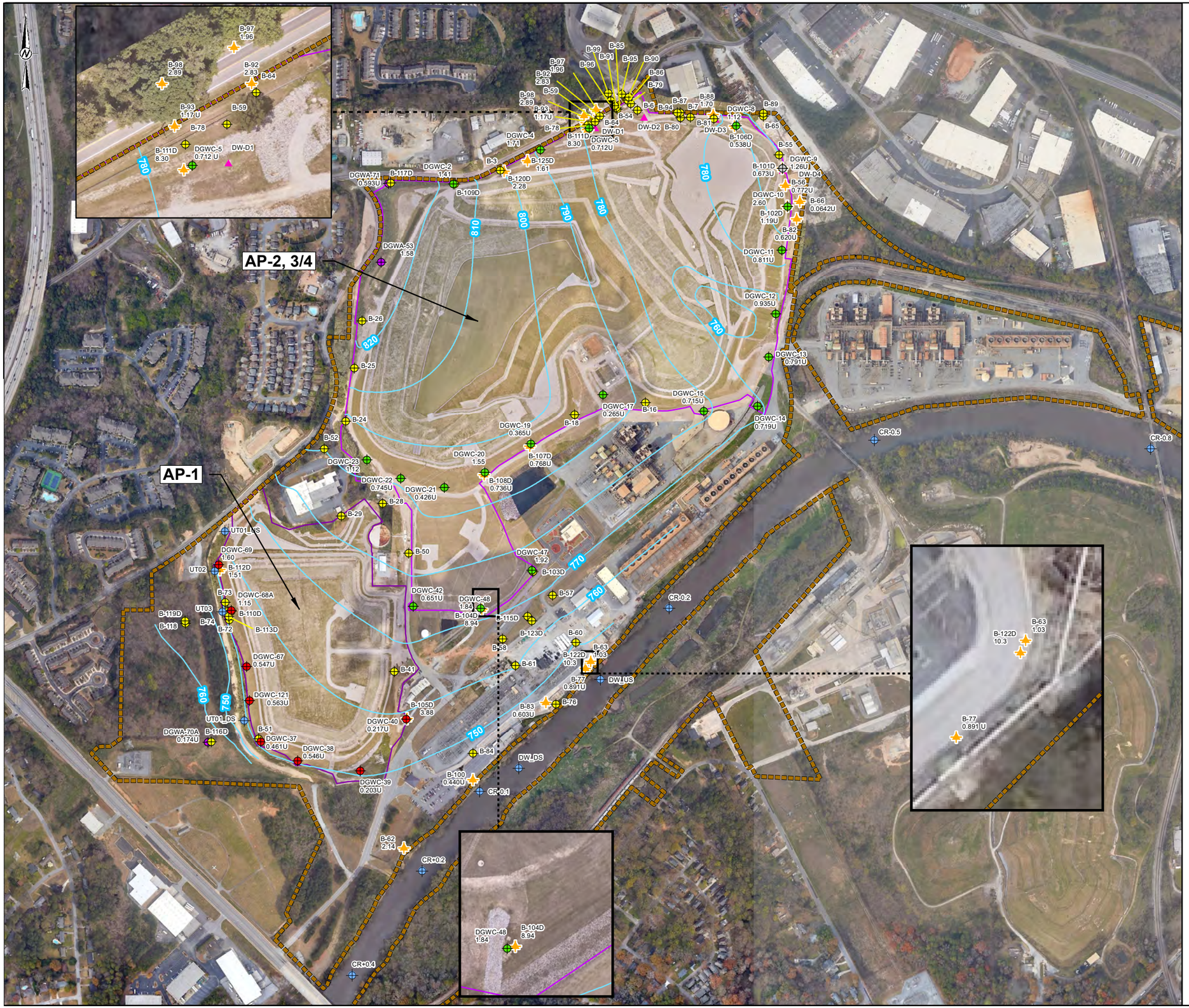
YYYY-MM-DD	2025-02-11
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE 8

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSI B



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- ABANDONED WELL
- 5 — RADIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPTEMBER 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER CONCENTRATIONS IN PICOCURIES PER LITER (PCI/L). GWPS = GROUNDWATER PROTECTION STANDARD.

3. DATA SHOWN REPRESENT THESEPTEMBER 2024 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.

4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2024 WATER LEVELS.

Analyte	Units	GWPS
Radium (226+228)	pCi/L	5

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JUNE 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).

3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021, MAY 2021, MAY 2022 AND 2023, AND JANUARY 2025.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
RADIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2024

CONSULTANT
wsp

YYYY-MM-DD	2025-02-11
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23
Rev. 0
FIGURE 9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM: ANSI B
1 in
0

APPENDIX A

Field Data Forms and Instrument Calibration Forms

APPENDIX A

Field Data Forms
September 2024

Low-Flow Test Report:

Test Date / Time: 9/9/2024 3:33:25 PM
Project: SCS Plant McDonough (4)
Operator Name: LND

Location Name: MCD-DGWC-2 **Latitude: 33.83213834000712** **Longitude: -84.47839716437875** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.42 ft** **Total Depth: 52.42 ft** **Initial Depth to Water: 33.33 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 5120 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.42 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/9/2024 3:33 PM	00:00	6.33 pH	28.43 °C	297.82 µS/cm	4.32 mg/L	4.29 NTU	126.6 mV	33.64 ft	160.00 ml/min
9/9/2024 3:37 PM	04:00	6.11 pH	22.38 °C	305.87 µS/cm	1.16 mg/L	0.46 NTU	121.0 mV	33.70 ft	160.00 ml/min
9/9/2024 3:41 PM	08:00	6.10 pH	21.60 °C	308.31 µS/cm	0.99 mg/L	0.54 NTU	120.7 mV	33.74 ft	160.00 ml/min
9/9/2024 3:45 PM	12:00	6.09 pH	21.38 °C	309.88 µS/cm	0.82 mg/L	0.52 NTU	119.2 mV	33.75 ft	160.00 ml/min
9/9/2024 3:49 PM	16:00	6.08 pH	21.19 °C	307.38 µS/cm	0.55 mg/L	0.41 NTU	118.9 mV	33.75 ft	160.00 ml/min
9/9/2024 3:53 PM	20:00	6.07 pH	21.83 °C	311.30 µS/cm	0.39 mg/L	0.47 NTU	121.9 mV	33.75 ft	160.00 ml/min
9/9/2024 3:57 PM	24:00	6.07 pH	21.79 °C	307.80 µS/cm	0.31 mg/L	0.41 NTU	124.2 mV	33.75 ft	160.00 ml/min
9/9/2024 4:01 PM	28:00	6.07 pH	21.61 °C	309.31 µS/cm	0.28 mg/L	0.45 NTU	126.8 mV	33.75 ft	160.00 ml/min
9/9/2024 4:05 PM	32:00	6.07 pH	21.24 °C	308.63 µS/cm	0.25 mg/L	0.42 NTU	130.0 mV	33.75 ft	160.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/6/2024 9:12:24 AM
Project: SCS Plant McDonough
Operator Name: LND

Location Name: MCD-DGWC-4 **Latitude: 33.832851859783716** **Longitude: -84.47642301648429** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.71 ft** **Total Depth: 46.71 ft** **Initial Depth to Water: 26.53 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 41.7 ft** **Estimated Total Volume Pumped: 3600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/6/2024 9:12 AM	00:00	5.88 pH	20.43 °C	1,402.9 µS/cm	1.40 mg/L	0.18 NTU	140.1 mV	26.76 ft	150.00 ml/min
9/6/2024 9:16 AM	04:00	5.77 pH	19.32 °C	1,410.9 µS/cm	0.84 mg/L	0.51 NTU	110.0 mV	26.76 ft	150.00 ml/min
9/6/2024 9:20 AM	08:00	5.68 pH	19.20 °C	1,506.4 µS/cm	0.57 mg/L	0.35 NTU	101.2 mV	26.78 ft	150.00 ml/min
9/6/2024 9:24 AM	12:00	5.66 pH	19.22 °C	1,520.9 µS/cm	0.41 mg/L	0.35 NTU	95.3 mV	26.76 ft	150.00 ml/min
9/6/2024 9:28 AM	16:00	5.65 pH	19.32 °C	1,519.1 µS/cm	0.32 mg/L	0.36 NTU	92.1 mV	26.76 ft	150.00 ml/min
9/6/2024 9:32 AM	20:00	5.65 pH	19.33 °C	1,523.9 µS/cm	0.31 mg/L	0.23 NTU	89.3 mV	26.76 ft	150.00 ml/min
9/6/2024 9:36 AM	24:00	5.65 pH	19.34 °C	1,524.2 µS/cm	0.32 mg/L	0.22 NTU	88.6 mV	26.76 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/6/2024 9:29:29 AM
Project: McDonough SAGW02 2024
Operator Name: Mark Mann

Location Name: MCD-DGWC-5 **Latitude: 33.83257129809496** **Longitude: -84.47584751594117** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.25 ft** **Total Depth: 33.25 ft** **Initial Depth to Water: 13.09 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.62 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/6/2024 9:29 AM	00:00	5.56 pH	23.84 °C	1,107.5 µS/cm	5.36 mg/L	1.13 NTU	200.1 mV	13.09 ft	150.00 ml/min
9/6/2024 9:34 AM	05:00	4.88 pH	20.53 °C	1,080.5 µS/cm	4.07 mg/L	0.70 NTU	509.2 mV	13.27 ft	150.00 ml/min
9/6/2024 9:39 AM	10:00	4.82 pH	20.20 °C	1,091.8 µS/cm	3.78 mg/L	0.66 NTU	510.7 mV	13.29 ft	200.00 ml/min
9/6/2024 9:44 AM	15:00	4.74 pH	19.87 °C	1,084.0 µS/cm	0.75 mg/L	0.37 NTU	501.4 mV	13.37 ft	250.00 ml/min
9/6/2024 9:49 AM	20:00	4.74 pH	19.63 °C	1,090.3 µS/cm	0.62 mg/L	0.71 NTU	513.3 mV	13.38 ft	250.00 ml/min
9/6/2024 9:54 AM	25:00	4.74 pH	19.64 °C	1,086.2 µS/cm	0.58 mg/L	0.34 NTU	578.9 mV	13.38 ft	250.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-5	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2024 11:33:37 AM
Project: SCS Plant McDonough (2)
Operator Name: LND

Location Name: MCD-DGWC-8 **Latitude: 33.83314763903478** **Longitude: -84.47090765962773** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.33 ft** **Total Depth: 51.33 ft** **Initial Depth to Water: 38.15 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 43.21 ft** **Estimated Total Volume Pumped: 3360 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 120 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/9/2024 11:33 AM	00:00	6.08 pH	25.35 °C	351.65 µS/cm	4.20 mg/L	0.34 NTU	197.2 mV	38.26 ft	120.00 ml/min
9/9/2024 11:37 AM	04:00	5.61 pH	22.78 °C	349.11 µS/cm	2.28 mg/L	0.12 NTU	196.5 mV	38.26 ft	120.00 ml/min
9/9/2024 11:41 AM	08:00	5.44 pH	22.55 °C	348.29 µS/cm	1.94 mg/L	0.12 NTU	192.0 mV	38.27 ft	120.00 ml/min
9/9/2024 11:45 AM	12:00	5.35 pH	22.40 °C	347.75 µS/cm	1.72 mg/L	0.14 NTU	185.4 mV	38.27 ft	120.00 ml/min
9/9/2024 11:49 AM	16:00	5.31 pH	22.18 °C	347.98 µS/cm	1.54 mg/L	0.12 NTU	179.5 mV	38.27 ft	120.00 ml/min
9/9/2024 11:53 AM	20:00	5.28 pH	22.57 °C	349.58 µS/cm	1.46 mg/L	0.12 NTU	172.9 mV	38.27 ft	120.00 ml/min
9/9/2024 11:57 AM	24:00	5.27 pH	22.81 °C	347.55 µS/cm	1.39 mg/L	0.11 NTU	167.7 mV	38.27 ft	120.00 ml/min
9/9/2024 12:01 PM	28:00	5.26 pH	22.46 °C	347.74 µS/cm	1.34 mg/L	0.10 NTU	163.0 mV	38.27 ft	120.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:26:19 AM
Project: McDonough SAGW02 2024 (2)
Operator Name: Mark Mann

Location Name: MCD-DGWC-9 **Latitude: 33.832005858452916** **Longitude: -84.47098913610398** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.72 ft** **Total Depth: 33.72 ft** **Initial Depth to Water: 29.86 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 33.6 ft** **Estimated Total Volume Pumped: 7250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/11/2024 9:26 AM	00:00	3.96 pH	21.16 °C	639.11 µS/cm	7.57 mg/L	21.70 NTU	228.9 mV	29.86 ft	200.00 ml/min
9/11/2024 9:31 AM	05:00	3.96 pH	19.41 °C	643.87 µS/cm	7.41 mg/L	20.40 NTU	277.7 mV	30.48 ft	200.00 ml/min
9/11/2024 9:36 AM	10:00	3.94 pH	19.76 °C	655.39 µS/cm	7.36 mg/L	17.50 NTU	264.0 mV	30.48 ft	150.00 ml/min
9/11/2024 9:41 AM	15:00	3.94 pH	19.72 °C	650.78 µS/cm	7.26 mg/L	15.90 NTU	252.0 mV	30.58 ft	150.00 ml/min
9/11/2024 9:46 AM	20:00	3.94 pH	19.78 °C	647.63 µS/cm	7.25 mg/L	10.80 NTU	170.4 mV	30.68 ft	150.00 ml/min
9/11/2024 9:51 AM	25:00	3.95 pH	19.86 °C	644.51 µS/cm	7.23 mg/L	8.64 NTU	165.1 mV	30.74 ft	150.00 ml/min
9/11/2024 9:56 AM	30:00	3.96 pH	19.76 °C	644.56 µS/cm	7.17 mg/L	4.75 NTU	162.3 mV	30.78 ft	150.00 ml/min
9/11/2024 10:01 AM	35:00	3.96 pH	19.83 °C	644.32 µS/cm	7.09 mg/L	6.07 NTU	158.3 mV	30.79 ft	150.00 ml/min
9/11/2024 10:06 AM	40:00	3.96 pH	19.94 °C	646.69 µS/cm	7.01 mg/L	4.89 NTU	154.5 mV	30.82 ft	150.00 ml/min
9/11/2024 10:11 AM	45:00	3.96 pH	19.99 °C	647.80 µS/cm	6.87 mg/L	3.46 NTU	151.5 mV	30.86 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-9	

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:55:02 AM
Project: Plant McDonough (12)
Operator Name: Ever Guillen

Location Name: MCD-DGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.8 ft** **Total Depth: 47.8 ft** **Initial Depth to Water: 26.73 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 42.8 ft** **Estimated Total Volume Pumped: 7130 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.65 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1035

Weather Conditions:
Warm,humid,cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/11/2024 9:55 AM	00:00	4.81 pH	20.94 °C	1,095.4 µS/cm	6.53 mg/L	7.90 NTU	211.1 mV	26.73 ft	200.00 ml/min
9/11/2024 10:00 AM	04:58	4.54 pH	19.41 °C	1,281.8 µS/cm	5.89 mg/L	5.78 NTU	192.7 mV	27.14 ft	200.00 ml/min
9/11/2024 10:00 AM	05:39	4.55 pH	19.41 °C	1,277.3 µS/cm	5.88 mg/L	5.86 NTU	176.8 mV	27.38 ft	200.00 ml/min
9/11/2024 10:05 AM	10:39	4.57 pH	19.32 °C	1,481.8 µS/cm	5.86 mg/L	1.96 NTU	216.0 mV	27.38 ft	200.00 ml/min
9/11/2024 10:10 AM	15:39	4.58 pH	19.32 °C	1,459.2 µS/cm	5.82 mg/L	0.91 NTU	211.6 mV	27.38 ft	200.00 ml/min
9/11/2024 10:15 AM	20:39	4.58 pH	19.32 °C	1,438.0 µS/cm	5.80 mg/L	0.42 NTU	207.4 mV	27.38 ft	200.00 ml/min
9/11/2024 10:20 AM	25:39	4.58 pH	19.37 °C	1,422.9 µS/cm	5.78 mg/L	0.33 NTU	203.7 mV	27.38 ft	200.00 ml/min
9/11/2024 10:25 AM	30:39	4.58 pH	19.35 °C	1,411.9 µS/cm	5.77 mg/L	0.42 NTU	200.3 mV	27.38 ft	200.00 ml/min
9/11/2024 10:30 AM	35:39	4.58 pH	19.32 °C	1,393.0 µS/cm	5.75 mg/L	0.46 NTU	198.8 mV	27.38 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/9/2024 2:26:09 PM
Project: Plant McDonough (9)
Operator Name: Ever Guillen

Location Name: MCD-DGWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.72 ft** **Total Depth: 51.72 ft** **Initial Depth to Water: 14.88 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 46 ft** **Estimated Total Volume Pumped: 6500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.71 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1510

Weather Conditions:
Hot, humid,clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/9/2024 2:26 PM	00:00	6.04 pH	34.58 °C	629.85 µS/cm	5.97 mg/L	9.70 NTU	110.0 mV	14.88 ft	200.00 ml/min
9/9/2024 2:31 PM	05:00	5.62 pH	23.23 °C	680.82 µS/cm	1.72 mg/L	7.89 NTU	321.8 mV	15.48 ft	200.00 ml/min
9/9/2024 2:36 PM	10:00	5.59 pH	23.17 °C	669.16 µS/cm	1.12 mg/L	5.33 NTU	338.4 mV	15.57 ft	150.00 ml/min
9/9/2024 2:41 PM	15:00	5.57 pH	23.47 °C	675.73 µS/cm	0.99 mg/L	4.21 NTU	347.3 mV	15.59 ft	150.00 ml/min
9/9/2024 2:46 PM	20:00	5.54 pH	23.11 °C	672.09 µS/cm	1.03 mg/L	2.17 NTU	489.4 mV	15.59 ft	150.00 ml/min
9/9/2024 2:51 PM	25:00	5.53 pH	22.84 °C	671.41 µS/cm	0.83 mg/L	1.04 NTU	342.0 mV	15.59 ft	150.00 ml/min
9/9/2024 2:56 PM	30:00	5.53 pH	22.03 °C	668.88 µS/cm	0.76 mg/L	0.53 NTU	347.1 mV	15.59 ft	150.00 ml/min
9/9/2024 3:01 PM	35:00	5.53 pH	22.73 °C	675.40 µS/cm	0.76 mg/L	0.45 NTU	338.1 mV	15.59 ft	150.00 ml/min
9/9/2024 3:06 PM	40:00	5.53 pH	22.98 °C	672.79 µS/cm	0.74 mg/L	0.62 NTU	323.6 mV	15.59 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/5/2024 1:58:22 PM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-DGWC-12 **Latitude: 33.829534747669314** **Longitude: -84.47116029456674** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.24 ft** **Total Depth: 28.24 ft** **Initial Depth to Water: 11.32 ft**	**Pump Type: Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 6600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
Sunny 72

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 50	+/- 0.3	
9/5/2024 1:58 PM	00:00	5.72 pH	28.20 °C	393.24 µS/cm	4.52 mg/L	81.50 NTU	98.6 mV	11.32 ft	110.00 ml/min
9/5/2024 2:02 PM	04:00	5.69 pH	22.67 °C	456.41 µS/cm	1.44 mg/L	413.00 NTU	62.4 mV	11.65 ft	110.00 ml/min
9/5/2024 2:06 PM	08:00	5.76 pH	24.35 °C	460.57 µS/cm	1.26 mg/L	321.00 NTU	47.9 mV	11.60 ft	110.00 ml/min
9/5/2024 2:10 PM	12:00	5.81 pH	22.34 °C	459.53 µS/cm	0.77 mg/L	93.70 NTU	38.0 mV	11.66 ft	110.00 ml/min
9/5/2024 2:14 PM	16:00	5.84 pH	22.08 °C	465.48 µS/cm	0.42 mg/L	49.00 NTU	30.7 mV	11.75 ft	110.00 ml/min
9/5/2024 2:18 PM	20:00	5.85 pH	22.29 °C	467.88 µS/cm	0.21 mg/L	37.80 NTU	27.9 mV	11.69 ft	110.00 ml/min
9/5/2024 2:22 PM	24:00	5.85 pH	22.28 °C	467.47 µS/cm	0.20 mg/L	27.90 NTU	27.2 mV	11.69 ft	110.00 ml/min
9/5/2024 2:26 PM	28:00	5.84 pH	21.91 °C	464.47 µS/cm	0.18 mg/L	24.20 NTU	27.7 mV	11.69 ft	110.00 ml/min
9/5/2024 2:30 PM	32:00	5.84 pH	21.87 °C	463.11 µS/cm	0.26 mg/L	20.00 NTU	28.0 mV	11.69 ft	110.00 ml/min
9/5/2024 2:34 PM	36:00	5.83 pH	21.55 °C	457.49 µS/cm	0.19 mg/L	14.50 NTU	28.6 mV	11.69 ft	110.00 ml/min
9/5/2024 2:38 PM	40:00	5.83 pH	22.28 °C	461.33 µS/cm	0.15 mg/L	12.10 NTU	28.6 mV	11.69 ft	110.00 ml/min
9/5/2024 2:42 PM	44:00	5.82 pH	22.30 °C	450.41 µS/cm	0.20 mg/L	10.00 NTU	29.7 mV	11.69 ft	110.00 ml/min
9/5/2024 2:46 PM	48:00	5.79 pH	22.12 °C	448.38 µS/cm	0.17 mg/L	5.58 NTU	32.2 mV	11.69 ft	110.00 ml/min

9/5/2024 2:50 PM	52:00	5.78 pH	22.00 °C	447.49 µS/cm	0.14 mg/L	5.54 NTU	33.7 mV	11.69 ft	110.00 ml/min
9/5/2024 2:54 PM	56:00	5.80 pH	21.65 °C	442.41 µS/cm	0.09 mg/L	5.33 NTU	33.8 mV	11.69 ft	110.00 ml/min
9/5/2024 2:58 PM	01:00:00	5.79 pH	21.50 °C	443.78 µS/cm	0.11 mg/L	4.33 NTU	34.4 mV	11.69 ft	110.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-12	Extra rads

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:23:55 AM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-DGWC-13 **Latitude: 33.828728995317434** **Longitude: -84.47123061873435** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.66 ft** **Total Depth: 46.66 ft** **Initial Depth to Water: 34.02 ft**	**Pump Type: Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 0.2	+/- 5	+/- 50	+/- 0.3	
9/5/2024 11:23 AM	00:00	6.07 pH	27.88 °C	327.39 µS/cm	7.09 mg/L	0.66 NTU	111.1 mV	34.10 ft	200.00 ml/min
9/5/2024 11:27 AM	04:00	5.67 pH	25.59 °C	314.38 µS/cm	5.60 mg/L	0.45 NTU	88.9 mV	34.18 ft	200.00 ml/min
9/5/2024 11:31 AM	08:00	5.62 pH	21.92 °C	316.57 µS/cm	4.53 mg/L	0.44 NTU	78.4 mV	34.20 ft	200.00 ml/min
9/5/2024 11:35 AM	12:00	5.62 pH	21.32 °C	318.60 µS/cm	4.57 mg/L	0.62 NTU	76.0 mV	34.22 ft	200.00 ml/min
9/5/2024 11:39 AM	16:00	5.60 pH	21.55 °C	319.08 µS/cm	4.37 mg/L	0.63 NTU	74.9 mV	34.22 ft	200.00 ml/min
9/5/2024 11:43 AM	20:00	5.59 pH	21.73 °C	318.61 µS/cm	4.24 mg/L	0.43 NTU	74.5 mV	34.22 ft	200.00 ml/min
9/5/2024 11:47 AM	24:00	5.58 pH	21.71 °C	318.82 µS/cm	4.20 mg/L	0.60 NTU	74.8 mV	34.22 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-13	
MCD-AP234-FD-3	

Low-Flow Test Report:

Test Date / Time: 9/10/2024 9:49:44 AM
Project: SCS Plant McDonough (2)
Operator Name: DCB

Location Name: MCD-DGWC-14 **Latitude: 33.828313542439595** **Longitude: -84.47095056042465** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.95 ft** **Total Depth: 37.95 ft** **Initial Depth to Water: 20.78 ft**	**Pump Type: Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 29.6 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
Sunny 85

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 50	+/- 0.3	
9/10/2024 9:49 AM	00:00	6.54 pH	21.50 °C	159.94 µS/cm	6.44 mg/L	0.54 NTU	124.2 mV	20.89 ft	200.00 ml/min
9/10/2024 9:53 AM	04:00	5.78 pH	20.11 °C	159.46 µS/cm	5.71 mg/L	0.56 NTU	93.1 mV	20.89 ft	200.00 ml/min
9/10/2024 9:57 AM	08:00	5.72 pH	19.94 °C	159.31 µS/cm	5.68 mg/L	0.70 NTU	87.4 mV	20.89 ft	200.00 ml/min
9/10/2024 10:01 AM	12:00	5.72 pH	19.98 °C	158.42 µS/cm	5.57 mg/L	0.70 NTU	85.3 mV	20.89 ft	200.00 ml/min
9/10/2024 10:05 AM	16:00	5.68 pH	19.97 °C	157.39 µS/cm	5.57 mg/L	0.51 NTU	85.5 mV	20.89 ft	200.00 ml/min
9/10/2024 10:09 AM	20:00	5.68 pH	20.05 °C	157.42 µS/cm	5.49 mg/L	0.50 NTU	84.5 mV	20.89 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-14	

Low-Flow Test Report:

Test Date / Time: 9/5/2024 9:07:05 AM
Project: SCS Plant McDonough (3)
Operator Name: DCB

Location Name: MCD-DGWC-15 **Latitude: 33.827857864120816** **Longitude: -84.47260751396834** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 60.83 ft** **Total Depth: 70.83 ft** **Initial Depth to Water: 41.33 ft**	**Pump Type: Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 65 ft** **Estimated Total Volume Pumped: 5600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.98 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 0.2	+/- 5	+/- 50	+/- 0.3	
9/5/2024 9:07 AM	00:00	6.29 pH	23.78 °C	399.65 µS/cm	5.47 mg/L	2.70 NTU	129.8 mV	41.62 ft	100.00 ml/min
9/5/2024 9:11 AM	04:00	5.87 pH	23.06 °C	395.22 µS/cm	2.10 mg/L	2.07 NTU	88.5 mV	41.68 ft	100.00 ml/min
9/5/2024 9:15 AM	08:00	5.85 pH	22.22 °C	392.39 µS/cm	1.49 mg/L	1.55 NTU	76.6 mV	41.92 ft	100.00 ml/min
9/5/2024 9:19 AM	12:00	5.82 pH	22.12 °C	393.21 µS/cm	1.30 mg/L	1.92 NTU	72.1 mV	42.10 ft	100.00 ml/min
9/5/2024 9:23 AM	16:00	5.80 pH	22.11 °C	391.87 µS/cm	0.85 mg/L	1.45 NTU	68.8 mV	42.15 ft	100.00 ml/min
9/5/2024 9:27 AM	20:00	5.77 pH	22.21 °C	389.22 µS/cm	0.68 mg/L	1.28 NTU	67.3 mV	42.31 ft	100.00 ml/min
9/5/2024 9:31 AM	24:00	5.76 pH	22.25 °C	389.69 µS/cm	0.53 mg/L	1.15 NTU	65.0 mV	42.31 ft	100.00 ml/min
9/5/2024 9:35 AM	28:00	5.77 pH	22.34 °C	325.77 µS/cm	0.59 mg/L	0.74 NTU	65.7 mV	42.31 ft	100.00 ml/min
9/5/2024 9:39 AM	32:00	5.78 pH	22.52 °C	391.12 µS/cm	0.64 mg/L	0.48 NTU	65.6 mV	42.31 ft	100.00 ml/min
9/5/2024 9:43 AM	36:00	5.79 pH	22.36 °C	391.62 µS/cm	0.56 mg/L	0.48 NTU	63.3 mV	42.31 ft	100.00 ml/min
9/5/2024 9:47 AM	40:00	5.79 pH	22.68 °C	393.13 µS/cm	0.84 mg/L	0.51 NTU	63.2 mV	42.31 ft	100.00 ml/min
9/5/2024 9:51 AM	44:00	5.79 pH	22.73 °C	394.01 µS/cm	0.90 mg/L	0.45 NTU	64.4 mV	42.31 ft	100.00 ml/min
9/5/2024 9:55 AM	48:00	5.79 pH	22.84 °C	391.39 µS/cm	0.57 mg/L	0.40 NTU	63.3 mV	42.31 ft	100.00 ml/min
9/5/2024 9:59 AM	52:00	5.79 pH	22.87 °C	392.39 µS/cm	0.59 mg/L	0.48 NTU	63.0 mV	42.31 ft	100.00 ml/min
9/5/2024 10:03 AM	56:00	5.79 pH	23.15 °C	403.28 µS/cm	0.59 mg/L	0.36 NTU	63.1 mV	42.31 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-15	

Low-Flow Test Report:

Test Date / Time: 9/10/2024 10:28:46 AM
Project: Plant McDonough (10)
Operator Name: Daniel Howard

Location Name: MCD-DGWC-17 **Latitude: 33.828081512869616** **Longitude: -84.4749816890803** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.95 ft** **Total Depth: 47.95 ft** **Initial Depth to Water: 39.61 ft**	**Pump Type: QED bladder pump** **Tubing Type: LDPE** **Pump Intake From TOC: 43.8 ft** **Estimated Total Volume Pumped: 28000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Sample time 1248.

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2024 10:28 AM	00:00	5.19 pH	23.72 °C	679.52 µS/cm	0.99 mg/L	248.00 NTU	51.2 mV	39.61 ft	200.00 ml/min
9/10/2024 10:33 AM	05:00	5.08 pH	22.09 °C	703.53 µS/cm	0.97 mg/L	228.00 NTU	34.0 mV	39.72 ft	200.00 ml/min
9/10/2024 10:38 AM	10:00	5.07 pH	22.06 °C	704.57 µS/cm	0.90 mg/L	146.00 NTU	33.1 mV	39.72 ft	200.00 ml/min
9/10/2024 10:43 AM	15:00	5.06 pH	22.17 °C	704.40 µS/cm	0.85 mg/L	79.70 NTU	41.3 mV	39.73 ft	200.00 ml/min
9/10/2024 10:48 AM	20:00	5.06 pH	22.13 °C	704.86 µS/cm	0.86 mg/L	66.30 NTU	45.6 mV	39.73 ft	200.00 ml/min
9/10/2024 10:53 AM	25:00	5.05 pH	22.45 °C	702.44 µS/cm	0.78 mg/L	52.60 NTU	53.4 mV	39.73 ft	200.00 ml/min
9/10/2024 10:58 AM	30:00	5.04 pH	21.95 °C	704.57 µS/cm	0.67 mg/L	27.60 NTU	61.8 mV	39.74 ft	200.00 ml/min
9/10/2024 11:03 AM	35:00	5.05 pH	21.94 °C	705.98 µS/cm	0.61 mg/L	22.40 NTU	66.0 mV	39.74 ft	200.00 ml/min
9/10/2024 11:08 AM	40:00	5.04 pH	21.86 °C	702.13 µS/cm	0.56 mg/L	17.80 NTU	77.5 mV	39.74 ft	200.00 ml/min
9/10/2024 11:13 AM	45:00	5.04 pH	21.89 °C	702.87 µS/cm	0.54 mg/L	12.70 NTU	75.6 mV	39.74 ft	200.00 ml/min
9/10/2024 11:18 AM	50:00	5.04 pH	21.91 °C	696.91 µS/cm	0.53 mg/L	11.50 NTU	78.4 mV	39.75 ft	200.00 ml/min
9/10/2024 11:23 AM	55:00	5.04 pH	21.86 °C	699.72 µS/cm	0.54 mg/L	10.60 NTU	90.9 mV	39.75 ft	200.00 ml/min
9/10/2024 11:28 AM	01:00:00	5.03 pH	21.93 °C	696.01 µS/cm	0.50 mg/L	10.40 NTU	97.2 mV	39.75 ft	200.00 ml/min

9/10/2024 11:33 AM	01:05:00	5.03 pH	22.09 °C	696.75 µS/cm	0.49 mg/L	10.90 NTU	80.6 mV	39.75 ft	200.00 ml/min
9/10/2024 11:38 AM	01:10:00	5.03 pH	22.45 °C	692.08 µS/cm	0.49 mg/L	7.76 NTU	95.1 mV	39.75 ft	200.00 ml/min
9/10/2024 11:43 AM	01:15:00	5.02 pH	22.45 °C	695.11 µS/cm	0.46 mg/L	7.56 NTU	94.5 mV	39.76 ft	200.00 ml/min
9/10/2024 11:48 AM	01:20:00	5.02 pH	22.58 °C	692.99 µS/cm	0.45 mg/L	7.17 NTU	73.0 mV	39.76 ft	200.00 ml/min
9/10/2024 11:53 AM	01:25:00	5.02 pH	22.49 °C	695.47 µS/cm	0.43 mg/L	6.06 NTU	92.0 mV	39.76 ft	200.00 ml/min
9/10/2024 11:58 AM	01:30:00	5.02 pH	22.66 °C	693.49 µS/cm	0.44 mg/L	5.74 NTU	100.8 mV	39.76 ft	200.00 ml/min
9/10/2024 12:03 PM	01:35:00	5.02 pH	22.37 °C	694.12 µS/cm	0.45 mg/L	5.52 NTU	85.8 mV	39.76 ft	200.00 ml/min
9/10/2024 12:08 PM	01:40:00	5.02 pH	22.56 °C	690.97 µS/cm	0.41 mg/L	5.30 NTU	82.3 mV	39.76 ft	200.00 ml/min
9/10/2024 12:13 PM	01:45:00	5.01 pH	22.80 °C	692.82 µS/cm	0.43 mg/L	4.71 NTU	80.5 mV	39.76 ft	200.00 ml/min
9/10/2024 12:18 PM	01:50:00	5.01 pH	22.53 °C	690.36 µS/cm	0.40 mg/L	4.87 NTU	67.1 mV	39.76 ft	200.00 ml/min
9/10/2024 12:23 PM	01:55:00	5.02 pH	22.26 °C	688.53 µS/cm	0.43 mg/L	4.77 NTU	93.9 mV	39.76 ft	200.00 ml/min
9/10/2024 12:28 PM	02:00:00	5.01 pH	22.37 °C	692.85 µS/cm	0.41 mg/L	4.89 NTU	67.5 mV	39.76 ft	200.00 ml/min
9/10/2024 12:33 PM	02:05:00	5.01 pH	22.63 °C	692.16 µS/cm	0.41 mg/L	4.28 NTU	80.2 mV	39.76 ft	200.00 ml/min
9/10/2024 12:38 PM	02:10:00	5.01 pH	22.44 °C	692.99 µS/cm	0.41 mg/L	3.72 NTU	67.7 mV	39.76 ft	200.00 ml/min
9/10/2024 12:43 PM	02:15:00	5.01 pH	22.49 °C	690.57 µS/cm	0.44 mg/L	3.48 NTU	80.8 mV	39.76 ft	200.00 ml/min
9/10/2024 12:48 PM	02:20:00	5.01 pH	22.22 °C	692.28 µS/cm	0.43 mg/L	3.38 NTU	85.9 mV	39.76 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-17	

Low-Flow Test Report:

Test Date / Time: 9/5/2024 8:55:39 AM
Project: SCS Plant McDonough
Operator Name: LND

Location Name: MCD-DGWC-19 **Latitude: 33.827035163167224** **Longitude: -84.47494684363608** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.23 ft** **Total Depth: 28.02 ft** **Initial Depth to Water: 43.23 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 44 ft** **Estimated Total Volume Pumped: 13687.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/5/2024 8:55 AM	00:00	4.87 pH	21.55 °C	771.43 µS/cm	0.75 mg/L	26.40 NTU	296.6 mV	28.17 ft	150.00 ml/min
9/5/2024 8:58 AM	02:53	4.74 pH	20.88 °C	837.36 µS/cm	0.47 mg/L	36.60 NTU	354.3 mV	28.18 ft	150.00 ml/min
9/5/2024 9:02 AM	06:53	4.68 pH	21.19 °C	818.06 µS/cm	0.52 mg/L	28.50 NTU	297.1 mV	28.18 ft	150.00 ml/min
9/5/2024 9:06 AM	10:53	4.68 pH	21.47 °C	813.81 µS/cm	0.52 mg/L	26.00 NTU	303.4 mV	28.18 ft	150.00 ml/min
9/5/2024 9:10 AM	14:53	4.69 pH	21.64 °C	799.48 µS/cm	0.53 mg/L	18.00 NTU	306.7 mV	28.19 ft	150.00 ml/min
9/5/2024 9:14 AM	18:53	4.69 pH	21.60 °C	808.16 µS/cm	0.51 mg/L	14.60 NTU	313.1 mV	28.19 ft	150.00 ml/min
9/5/2024 9:17 AM	21:55	4.70 pH	21.73 °C	805.71 µS/cm	0.52 mg/L	12.80 NTU	306.9 mV	28.19 ft	150.00 ml/min
9/5/2024 9:21 AM	25:55	4.71 pH	21.89 °C	828.50 µS/cm	0.46 mg/L	9.37 NTU	302.2 mV	28.19 ft	150.00 ml/min
9/5/2024 9:25 AM	29:55	4.74 pH	21.98 °C	829.27 µS/cm	0.32 mg/L	5.86 NTU	300.1 mV	28.19 ft	150.00 ml/min
9/5/2024 9:29 AM	33:55	4.73 pH	22.12 °C	818.45 µS/cm	0.29 mg/L	5.40 NTU	302.3 mV	28.23 ft	150.00 ml/min
9/5/2024 9:33 AM	37:55	4.75 pH	21.70 °C	804.02 µS/cm	0.37 mg/L	4.98 NTU	326.6 mV	28.23 ft	150.00 ml/min
9/5/2024 9:37 AM	41:55	4.75 pH	21.64 °C	823.07 µS/cm	0.22 mg/L	4.43 NTU	338.9 mV	28.38 ft	150.00 ml/min
9/5/2024 9:41 AM	45:55	4.75 pH	20.73 °C	810.59 µS/cm	0.15 mg/L	3.65 NTU	354.4 mV	28.23 ft	250.00 ml/min
9/5/2024 9:45 AM	49:55	4.77 pH	20.77 °C	824.51 µS/cm	0.15 mg/L	2.83 NTU	364.8 mV	28.23 ft	250.00 ml/min
9/5/2024 9:49 AM	53:55	4.58 pH	20.81 °C	823.97 µS/cm	0.14 mg/L	2.29 NTU	382.9 mV	28.23 ft	250.00 ml/min

9/5/2024 9:53 AM	57:55	4.78 pH	20.80 °C	834.09 µS/cm	0.13 mg/L	2.11 NTU	404.3 mV	28.28 ft	250.00 ml/min
9/5/2024 9:57 AM	01:01:55	4.78 pH	20.84 °C	822.96 µS/cm	0.12 mg/L	1.49 NTU	411.4 mV	28.26 ft	250.00 ml/min
9/5/2024 10:01 AM	01:05:55	4.79 pH	21.78 °C	837.17 µS/cm	0.18 mg/L	1.46 NTU	411.9 mV	28.26 ft	150.00 ml/min
9/5/2024 10:05 AM	01:09:55	4.79 pH	22.07 °C	823.10 µS/cm	0.21 mg/L	1.40 NTU	414.1 mV	28.26 ft	150.00 ml/min
9/5/2024 10:09 AM	01:13:55	4.80 pH	22.13 °C	829.17 µS/cm	0.20 mg/L	1.16 NTU	413.6 mV	28.26 ft	150.00 ml/min
9/5/2024 10:13 AM	01:17:55	4.79 pH	22.22 °C	829.61 µS/cm	0.21 mg/L	1.40 NTU	414.4 mV	28.26 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 12:14:30 PM
Project: SCS Plant McDonough
Operator Name: LND

Location Name: MCD-DGWC-20 **Latitude: 33.826871098804794** **Longitude: -84.47523844117129** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.3 ft** **Total Depth: 43.3 ft** **Initial Depth to Water: 25.86 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 36 ft** **Estimated Total Volume Pumped: 7600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 0.77 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/5/2024 12:14 PM	00:00	4.23 pH	24.12 °C	1,320.5 µS/cm	0.50 mg/L	16.80 NTU	298.1 mV	26.62 ft	125.00 ml/min
9/5/2024 12:18 PM	04:00	4.22 pH	23.82 °C	1,329.9 µS/cm	0.57 mg/L	9.33 NTU	264.9 mV	26.65 ft	125.00 ml/min
9/5/2024 12:22 PM	08:00	4.22 pH	23.77 °C	1,331.9 µS/cm	0.55 mg/L	6.17 NTU	259.2 mV	26.66 ft	125.00 ml/min
9/5/2024 12:26 PM	12:00	4.22 pH	24.04 °C	1,310.7 µS/cm	0.51 mg/L	5.72 NTU	265.4 mV	26.66 ft	125.00 ml/min
9/5/2024 12:30 PM	16:00	4.22 pH	23.67 °C	1,317.9 µS/cm	0.47 mg/L	5.37 NTU	270.8 mV	26.81 ft	200.00 ml/min
9/5/2024 12:34 PM	20:00	4.24 pH	22.55 °C	1,284.7 µS/cm	0.42 mg/L	5.50 NTU	289.1 mV	27.01 ft	200.00 ml/min
9/5/2024 12:38 PM	24:00	4.21 pH	23.26 °C	1,321.6 µS/cm	0.41 mg/L	4.84 NTU	284.3 mV	26.77 ft	125.00 ml/min
9/5/2024 12:42 PM	28:00	4.20 pH	24.41 °C	1,320.3 µS/cm	0.37 mg/L	2.12 NTU	310.9 mV	26.70 ft	125.00 ml/min
9/5/2024 12:46 PM	32:00	4.21 pH	24.32 °C	1,297.7 µS/cm	0.35 mg/L	1.97 NTU	338.0 mV	26.65 ft	125.00 ml/min
9/5/2024 12:50 PM	36:00	4.21 pH	24.37 °C	1,309.1 µS/cm	0.34 mg/L	2.14 NTU	338.1 mV	26.64 ft	125.00 ml/min
9/5/2024 12:54 PM	40:00	4.22 pH	24.49 °C	1,298.7 µS/cm	0.32 mg/L	1.99 NTU	340.2 mV	26.63 ft	125.00 ml/min
9/5/2024 12:58 PM	44:00	4.21 pH	24.56 °C	1,308.0 µS/cm	0.31 mg/L	2.12 NTU	346.5 mV	26.64 ft	125.00 ml/min
9/5/2024 1:02 PM	48:00	4.22 pH	24.19 °C	1,298.3 µS/cm	0.30 mg/L	1.86 NTU	352.8 mV	26.63 ft	125.00 ml/min
9/5/2024 1:06 PM	52:00	4.21 pH	24.62 °C	1,284.4 µS/cm	0.28 mg/L	1.87 NTU	364.5 mV	26.63 ft	125.00 ml/min
9/5/2024 1:10 PM	56:00	4.22 pH	24.38 °C	1,316.3 µS/cm	0.26 mg/L	1.49 NTU	367.2 mV	26.63 ft	125.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/4/2024 3:06:35PM
Project: SCS Plant McDonough
Operator Name: LND

Location Name: MCD-DGWC-21 **Latitude: 33.82649028** **Longitude: -84.4779934** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.6 ft** **Total Depth: 20.68 ft** **Initial Depth to Water: 72.6 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 66 ft** **Estimated Total Volume Pumped: 5077.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/4/2024 3:06PM	00:00	5.61 pH	24.08 °C	692.04 µS/cm	0.25 mg/L	3.14 NTU	197.0 mV	20.89 ft	150.00 ml/min
9/4/2024 3:16PM	09:39	5.61 pH	23.64 °C	713.82 µS/cm	0.25 mg/L	2.70 NTU	123.2 mV	20.90 ft	150.00 ml/min
9/4/2024 3:16PM	09:51	5.60 pH	23.62 °C	713.48 µS/cm	0.25 mg/L	1.45 NTU	141.2 mV	20.88 ft	150.00 ml/min
9/4/2024 3:20PM	13:51	5.60 pH	23.38 °C	715.04 µS/cm	0.23 mg/L	0.67 NTU	174.2 mV	20.88 ft	150.00 ml/min
9/4/2024 3:24PM	17:51	5.60 pH	23.55 °C	703.29 µS/cm	0.22 mg/L	0.69 NTU	178.7 mV	20.88 ft	150.00 ml/min
9/4/2024 3:28PM	21:51	5.61 pH	23.03 °C	695.46 µS/cm	0.21 mg/L	0.53 NTU	178.5 mV	20.88 ft	150.00 ml/min
9/4/2024 3:32PM	25:51	5.61 pH	22.99 °C	702.13 µS/cm	0.21 mg/L	0.38 NTU	177.2 mV	20.88 ft	150.00 ml/min
9/4/2024 3:36PM	29:51	5.60 pH	23.79 °C	699.52 µS/cm	0.20 mg/L	0.31 NTU	174.6 mV	20.88 ft	150.00 ml/min
9/4/2024 3:40PM	33:51	5.62 pH	23.81 °C	694.86 µS/cm	0.20 mg/L	0.39 NTU	170.1 mV	20.88 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/9/2024 9:26:16 AM
Project: McDonough SAGW01 2024 (34)
Operator Name: Mark Mann

Location Name: MCD-DGWC-22 **Latitude: 33.82667278043642** **Longitude: -84.47881356884514** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.45 ft** **Total Depth: 63.45 ft** **Initial Depth to Water: 24.53 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 59 ft** **Estimated Total Volume Pumped: 6500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2024 9:26 AM	00:00	6.35 pH	24.27 °C	471.65 µS/cm	4.53 mg/L	0.50 NTU	7.5 mV	24.53 ft	250.00 ml/min
9/9/2024 9:31 AM	05:00	5.61 pH	20.57 °C	606.45 µS/cm	0.24 mg/L	0.86 NTU	19.2 mV	24.87 ft	250.00 ml/min
9/9/2024 9:36 AM	10:00	5.65 pH	20.32 °C	596.77 µS/cm	0.19 mg/L	0.46 NTU	21.2 mV	24.88 ft	250.00 ml/min
9/9/2024 9:41 AM	15:00	5.63 pH	20.17 °C	604.45 µS/cm	0.14 mg/L	0.63 NTU	30.3 mV	24.89 ft	250.00 ml/min
9/9/2024 9:42 AM	16:00	5.62 pH	20.13 °C	602.10 µS/cm	0.12 mg/L	0.63 NTU	33.5 mV	24.89 ft	250.00 ml/min
9/9/2024 9:47 AM	21:00	5.63 pH	20.00 °C	607.38 µS/cm	0.11 mg/L	0.41 NTU	47.5 mV	24.89 ft	250.00 ml/min
9/9/2024 9:52 AM	26:00	5.60 pH	20.08 °C	604.43 µS/cm	0.11 mg/L	0.43 NTU	52.2 mV	24.89 ft	250.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-22	

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:40:28 AM
Project: Plant McDonough 2024 SAGW02
Operator Name: Mark Mann

Location Name: MCD-DGWC-23 **Latitude: 33.826624489027886** **Longitude: -84.47997001336375** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.26 ft** **Total Depth: 63.26 ft** **Initial Depth to Water: 24.65 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 54.83 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 2.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/5/2024 11:40 AM	00:00	6.74 pH	28.08 °C	624.96 µS/cm	4.97 mg/L	14.70 NTU	149.5 mV	24.65 ft	150.00 ml/min
9/5/2024 11:45 AM	05:00	6.12 pH	21.80 °C	796.19 µS/cm	4.41 mg/L	2.71 NTU	73.3 mV	26.05 ft	150.00 ml/min
9/5/2024 11:50 AM	10:00	6.12 pH	22.09 °C	838.54 µS/cm	4.97 mg/L	0.71 NTU	72.3 mV	26.31 ft	150.00 ml/min
9/5/2024 11:55 AM	15:00	6.07 pH	22.00 °C	783.16 µS/cm	5.17 mg/L	0.44 NTU	155.4 mV	26.47 ft	150.00 ml/min
9/5/2024 12:00 PM	20:00	6.07 pH	21.63 °C	783.96 µS/cm	5.09 mg/L	0.43 NTU	202.1 mV	26.64 ft	150.00 ml/min
9/5/2024 12:05 PM	25:00	6.11 pH	21.69 °C	806.80 µS/cm	5.17 mg/L	0.58 NTU	169.9 mV	26.67 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-23	

Low-Flow Test Report:

Test Date / Time: 9/5/2024 3:16:47 PM
Project: SCS Plant McDonough
Operator Name: LND

Location Name: MCD-DGWC-42 **Latitude: 33.825431696655** **Longitude: -84.4759541549671** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.7 ft** **Total Depth: 52.7 ft** **Initial Depth to Water: 31.41 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 47.7 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.94 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/5/2024 3:16 PM	00:00	6.19 pH	29.60 °C	698.32 µS/cm	6.21 mg/L	0.30 NTU	175.9 mV	31.90 ft	200.00 ml/min
9/5/2024 3:20 PM	04:00	5.32 pH	23.12 °C	735.64 µS/cm	1.19 mg/L	0.21 NTU	164.3 mV	32.18 ft	200.00 ml/min
9/5/2024 3:24 PM	08:00	5.32 pH	22.47 °C	747.33 µS/cm	2.44 mg/L	0.28 NTU	152.0 mV	32.31 ft	200.00 ml/min
9/5/2024 3:28 PM	12:00	5.28 pH	22.27 °C	746.38 µS/cm	2.48 mg/L	0.25 NTU	148.2 mV	32.35 ft	200.00 ml/min
9/5/2024 3:32 PM	16:00	5.20 pH	22.91 °C	753.98 µS/cm	2.07 mg/L	0.24 NTU	145.6 mV	32.35 ft	200.00 ml/min
9/5/2024 3:36 PM	20:00	5.14 pH	22.19 °C	745.02 µS/cm	1.48 mg/L	0.16 NTU	141.7 mV	32.35 ft	200.00 ml/min
9/5/2024 3:40 PM	24:00	5.10 pH	21.99 °C	742.93 µS/cm	1.16 mg/L	0.14 NTU	138.8 mV	32.35 ft	200.00 ml/min
9/5/2024 3:44 PM	28:00	5.07 pH	22.00 °C	738.68 µS/cm	0.92 mg/L	0.18 NTU	135.8 mV	32.35 ft	200.00 ml/min
9/5/2024 3:48 PM	32:00	5.05 pH	22.08 °C	737.61 µS/cm	0.75 mg/L	0.17 NTU	132.5 mV	32.35 ft	200.00 ml/min
9/5/2024 3:52 PM	36:00	5.05 pH	21.76 °C	733.97 µS/cm	0.66 mg/L	0.19 NTU	129.6 mV	32.35 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/5/2024 2:11:38 PM
Project: Plant McDonough 2024 SAGW02 (3)
Operator Name: Mark Mann

Location Name: MCD-DGWC-47 **Latitude: 33.825178400019105** **Longitude: -84.4750438160436** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 21.93 ft** **Total Depth: 31.93 ft** **Initial Depth to Water: 22.18 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 31.93 ft** **Estimated Total Volume Pumped: 18500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.72 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
3 Well Volume Purge

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/5/2024 2:11 PM	00:00	5.53 pH	32.65 °C	308.68 µS/cm	1.38 mg/L	5.57 NTU	142.3 mV	22.18 ft	500.00 ml/min
9/5/2024 2:16 PM	05:00	4.08 pH	23.13 °C	348.55 µS/cm	0.48 mg/L	4.48 NTU	327.1 mV	23.32 ft	500.00 ml/min
9/5/2024 2:21 PM	10:00	4.19 pH	22.64 °C	347.30 µS/cm	0.14 mg/L	3.67 NTU	265.0 mV	24.12 ft	500.00 ml/min
9/5/2024 2:26 PM	15:00	4.25 pH	22.13 °C	343.84 µS/cm	0.12 mg/L	7.44 NTU	191.1 mV	24.82 ft	200.00 ml/min
9/5/2024 2:31 PM	20:00	4.14 pH	23.12 °C	351.89 µS/cm	0.14 mg/L	6.13 NTU	196.7 mV	24.85 ft	200.00 ml/min
9/5/2024 2:36 PM	25:00	4.14 pH	22.89 °C	351.95 µS/cm	0.15 mg/L	4.24 NTU	194.0 mV	24.88 ft	200.00 ml/min
9/5/2024 2:41 PM	30:00	4.16 pH	22.77 °C	351.37 µS/cm	0.17 mg/L	3.68 NTU	177.4 mV	24.98 ft	200.00 ml/min
9/5/2024 2:46 PM	35:00	4.16 pH	22.79 °C	351.79 µS/cm	0.20 mg/L	2.80 NTU	146.1 mV	25.02 ft	200.00 ml/min
9/5/2024 2:51 PM	40:00	4.19 pH	22.71 °C	349.26 µS/cm	0.19 mg/L	1.42 NTU	119.6 mV	25.06 ft	200.00 ml/min
9/5/2024 2:56 PM	45:00	4.18 pH	23.03 °C	350.26 µS/cm	0.20 mg/L	1.74 NTU	95.5 mV	24.99 ft	200.00 ml/min
9/5/2024 3:01 PM	50:00	4.18 pH	22.94 °C	350.64 µS/cm	0.18 mg/L	1.58 NTU	115.1 mV	24.93 ft	200.00 ml/min
9/5/2024 3:06 PM	55:00	4.19 pH	22.93 °C	348.35 µS/cm	0.18 mg/L	1.27 NTU	85.1 mV	24.93 ft	200.00 ml/min
9/5/2024 3:11 PM	01:00:00	4.19 pH	22.98 °C	346.38 µS/cm	0.21 mg/L	0.95 NTU	117.0 mV	24.92 ft	200.00 ml/min
9/5/2024 3:16 PM	01:05:00	4.19 pH	22.80 °C	346.38 µS/cm	0.22 mg/L	0.60 NTU	92.8 mV	24.91 ft	200.00 ml/min
9/5/2024 3:21 PM	01:10:00	4.19 pH	23.05 °C	345.82 µS/cm	0.23 mg/L	0.39 NTU	129.1 mV	24.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-47	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:42:58 PM
Project: Plant McDonough 2024 SAGW02
Operator Name: Mark Mann

Location Name: MCD-DGWC-48 **Latitude: 33.82386617493064** **Longitude: -84.47743087431422** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.52 ft** **Total Depth: 33.52 ft** **Initial Depth to Water: 17.05 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 27 ft** **Estimated Total Volume Pumped: 3125 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 0.43 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2024 12:42 PM	00:00	5.32 pH	39.57 °C	526.24 µS/cm	3.17 mg/L	21.90 NTU	154.2 mV	17.08 ft	125.00 ml/min
9/10/2024 12:47 PM	05:00	4.35 pH	26.00 °C	588.79 µS/cm	0.36 mg/L	16.70 NTU	196.3 mV	17.46 ft	125.00 ml/min
9/10/2024 12:52 PM	10:00	4.35 pH	25.42 °C	598.67 µS/cm	0.24 mg/L	6.76 NTU	240.7 mV	17.46 ft	125.00 ml/min
9/10/2024 12:57 PM	15:00	4.36 pH	24.96 °C	596.50 µS/cm	0.18 mg/L	3.90 NTU	185.8 mV	17.47 ft	125.00 ml/min
9/10/2024 1:02 PM	20:00	4.35 pH	24.84 °C	597.61 µS/cm	0.15 mg/L	3.87 NTU	179.3 mV	17.48 ft	125.00 ml/min
9/10/2024 1:07 PM	25:00	4.35 pH	24.49 °C	594.49 µS/cm	0.14 mg/L	2.09 NTU	226.9 mV	17.48 ft	125.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-48	

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:21:09 AM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-B-56 **Latitude: 33.83177259008757** **Longitude: -84.47092727765857** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.9 ft** **Total Depth: 47.9 ft** **Initial Depth to Water: 29.86 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 42 m** **Estimated Total Volume Pumped: 12600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
Cloudy 75

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 50	+/- 0.3	
9/11/2024 9:21 AM	00:00	4.80 pH	20.75 °C	563.88 µS/cm	4.96 mg/L	92.00 NTU	119.7 mV	29.86 ft	200.00 ml/min
9/11/2024 9:25 AM	04:00	4.68 pH	19.34 °C	559.00 µS/cm	4.32 mg/L	28.70 NTU	107.4 mV	29.86 ft	200.00 ml/min
9/11/2024 9:29 AM	08:00	4.73 pH	19.16 °C	560.00 µS/cm	4.73 mg/L	23.60 NTU	107.1 mV	29.86 ft	200.00 ml/min
9/11/2024 9:33 AM	12:00	4.74 pH	19.14 °C	560.22 µS/cm	4.99 mg/L	21.60 NTU	108.6 mV	29.86 ft	200.00 ml/min
9/11/2024 9:37 AM	16:00	4.75 pH	19.35 °C	561.59 µS/cm	4.93 mg/L	21.90 NTU	106.9 mV	29.86 ft	200.00 ml/min
9/11/2024 9:41 AM	20:00	4.81 pH	18.95 °C	556.45 µS/cm	5.12 mg/L	17.50 NTU	107.1 mV	29.86 ft	200.00 ml/min
9/11/2024 9:45 AM	24:00	4.81 pH	18.68 °C	557.58 µS/cm	5.41 mg/L	18.10 NTU	107.3 mV	29.86 ft	200.00 ml/min
9/11/2024 9:49 AM	28:00	4.79 pH	18.66 °C	556.71 µS/cm	4.84 mg/L	22.40 NTU	108.0 mV	29.86 ft	200.00 ml/min
9/11/2024 9:53 AM	32:00	4.79 pH	18.65 °C	556.30 µS/cm	4.78 mg/L	12.20 NTU	108.3 mV	29.86 ft	200.00 ml/min
9/11/2024 9:57 AM	36:00	4.77 pH	18.61 °C	556.26 µS/cm	4.80 mg/L	11.80 NTU	108.4 mV	29.86 ft	200.00 ml/min
9/11/2024 10:01 AM	40:00	4.77 pH	18.66 °C	556.16 µS/cm	4.59 mg/L	12.00 NTU	108.3 mV	29.86 ft	200.00 ml/min
9/11/2024 10:05 AM	44:00	4.77 pH	18.69 °C	555.29 µS/cm	4.47 mg/L	9.72 NTU	108.2 mV	29.86 ft	200.00 ml/min
9/11/2024 10:09 AM	48:00	4.79 pH	18.69 °C	553.82 µS/cm	4.76 mg/L	8.98 NTU	108.7 mV	29.86 ft	200.00 ml/min

9/11/2024 10:13 AM	52:00	4.78 pH	18.73 °C	555.09 µS/cm	4.64 mg/L	11.00 NTU	108.5 mV	29.86 ft	200.00 ml/min
9/11/2024 10:17 AM	56:00	4.79 pH	18.71 °C	557.33 µS/cm	4.65 mg/L	8.63 NTU	108.6 mV	29.86 ft	200.00 ml/min
9/11/2024 10:21 AM	01:00:00	4.78 pH	18.74 °C	557.14 µS/cm	4.52 mg/L	10.20 NTU	109.2 mV	29.86 ft	200.00 ml/min
9/11/2024 10:25 AM	01:04:00	4.89 pH	18.78 °C	556.31 µS/cm	5.75 mg/L	9.54 NTU	110.2 mV	29.86 ft	200.00 ml/min
9/11/2024 10:29 AM	01:08:00	4.81 pH	18.75 °C	556.16 µS/cm	5.41 mg/L	7.44 NTU	110.4 mV	29.86 ft	200.00 ml/min
9/11/2024 10:33 AM	01:12:00	4.80 pH	18.76 °C	557.79 µS/cm	4.81 mg/L	6.71 NTU	109.8 mV	29.86 ft	200.00 ml/min
9/11/2024 10:37 AM	01:16:00	4.79 pH	18.78 °C	557.82 µS/cm	4.80 mg/L	6.12 NTU	109.2 mV	29.86 ft	200.00 ml/min
9/11/2024 10:41 AM	01:20:00	4.81 pH	18.79 °C	555.73 µS/cm	4.89 mg/L	6.77 NTU	110.1 mV	29.86 ft	200.00 ml/min
9/11/2024 10:45 AM	01:24:00	4.82 pH	18.82 °C	557.47 µS/cm	5.01 mg/L	4.98 NTU	110.1 mV	29.86 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-56	

Low-Flow Test Report:

Test Date / Time: 9/6/2024 10:10:36 AM
Project: Plant McDonough (6)
Operator Name: Ever Guillen

Location Name: MCD-B-63 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.15 ft** **Total Depth: 46.15 ft** **Initial Depth to Water: 31.1 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.52 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1055

Weather Conditions:
Hot,dry,cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/6/2024 10:10 AM	00:00	6.18 pH	23.53 °C	278.27 µS/cm	3.36 mg/L	9.61 NTU	-42.6 mV	31.10 ft	200.00 ml/min
9/6/2024 10:15 AM	05:00	6.12 pH	21.93 °C	314.28 µS/cm	0.59 mg/L	6.33 NTU	-54.8 mV	31.62 ft	150.00 ml/min
9/6/2024 10:20 AM	10:00	6.01 pH	22.27 °C	312.19 µS/cm	0.41 mg/L	5.28 NTU	-45.9 mV	31.62 ft	150.00 ml/min
9/6/2024 10:25 AM	15:00	5.89 pH	22.28 °C	302.17 µS/cm	0.35 mg/L	4.15 NTU	-26.7 mV	31.62 ft	150.00 ml/min
9/6/2024 10:30 AM	20:00	5.83 pH	22.31 °C	300.38 µS/cm	0.30 mg/L	3.95 NTU	-13.1 mV	31.62 ft	150.00 ml/min
9/6/2024 10:35 AM	25:00	5.80 pH	22.36 °C	298.02 µS/cm	0.27 mg/L	3.24 NTU	-8.9 mV	31.62 ft	150.00 ml/min
9/6/2024 10:40 AM	30:00	5.77 pH	22.50 °C	293.76 µS/cm	0.24 mg/L	2.79 NTU	4.8 mV	31.62 ft	150.00 ml/min
9/6/2024 10:45 AM	35:00	5.73 pH	22.55 °C	292.60 µS/cm	0.22 mg/L	2.23 NTU	0.7 mV	31.62 ft	150.00 ml/min
9/6/2024 10:50 AM	40:00	5.73 pH	22.54 °C	293.29 µS/cm	0.20 mg/L	1.61 NTU	-0.8 mV	31.62 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/9/2024 10:28:46 AM
Project: Plant McDonough (7)
Operator Name: Ever Guillen

Location Name: B-66 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47.99 ft** **Total Depth: 57.99 ft** **Initial Depth to Water: 18.54 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 5400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 12.97 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1110

Weather Conditions:
Hot,dry,cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/9/2024 10:28 AM	00:00	6.61 pH	23.19 °C	651.34 µS/cm	2.02 mg/L	9.14 NTU	188.1 mV	18.54 ft	200.00 ml/min
9/9/2024 10:33 AM	05:00	5.73 pH	21.06 °C	691.03 µS/cm	0.61 mg/L	8.42 NTU	160.2 mV	19.49 ft	200.00 ml/min
9/9/2024 10:38 AM	10:00	5.73 pH	20.33 °C	680.90 µS/cm	0.28 mg/L	5.53 NTU	183.3 mV	20.78 ft	180.00 ml/min
9/9/2024 10:43 AM	15:00	5.73 pH	20.88 °C	687.63 µS/cm	0.33 mg/L	4.94 NTU	183.3 mV	21.30 ft	100.00 ml/min
9/9/2024 10:48 AM	20:00	5.73 pH	21.74 °C	680.21 µS/cm	0.34 mg/L	3.25 NTU	184.7 mV	21.37 ft	100.00 ml/min
9/9/2024 10:53 AM	25:00	5.71 pH	21.91 °C	684.58 µS/cm	0.32 mg/L	1.80 NTU	187.9 mV	21.44 ft	100.00 ml/min
9/9/2024 10:58 AM	30:00	5.71 pH	22.17 °C	678.27 µS/cm	0.29 mg/L	1.30 NTU	193.8 mV	21.51 ft	100.00 ml/min
9/9/2024 11:03 AM	35:00	5.71 pH	22.40 °C	676.56 µS/cm	0.27 mg/L	0.57 NTU	201.7 mV	21.51 ft	100.00 ml/min
9/9/2024 11:08 AM	40:00	5.71 pH	22.29 °C	670.06 µS/cm	0.26 mg/L	0.31 NTU	216.4 mV	21.51 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:45:17 AM
Project: SCS Plant McDonough (7)
Operator Name: LND

Location Name: MCD-B-77 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 31.61 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 1.46 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/11/2024 9:45 AM	00:00	6.24 pH	23.66 °C	324.12 µS/cm	1.19 mg/L	18.10 NTU	-84.9 mV	31.82 ft	160.00 ml/min
9/11/2024 9:50 AM	05:00	6.32 pH	21.38 °C	329.89 µS/cm	0.46 mg/L	19.50 NTU	-93.6 mV	31.99 ft	160.00 ml/min
9/11/2024 9:55 AM	10:00	6.34 pH	21.02 °C	328.84 µS/cm	0.23 mg/L	21.80 NTU	-93.9 mV	32.11 ft	160.00 ml/min
9/11/2024 10:00 AM	15:00	6.36 pH	20.99 °C	325.31 µS/cm	0.14 mg/L	22.20 NTU	-86.5 mV	32.31 ft	160.00 ml/min
9/11/2024 10:05 AM	20:00	6.37 pH	20.84 °C	324.28 µS/cm	0.12 mg/L	13.90 NTU	-90.9 mV	32.45 ft	160.00 ml/min
9/11/2024 10:10 AM	25:00	6.37 pH	20.94 °C	318.60 µS/cm	0.10 mg/L	7.19 NTU	-82.4 mV	32.72 ft	160.00 ml/min
9/11/2024 10:15 AM	30:00	6.36 pH	20.89 °C	309.20 µS/cm	0.09 mg/L	5.99 NTU	-77.2 mV	32.74 ft	160.00 ml/min
9/11/2024 10:20 AM	35:00	6.34 pH	20.92 °C	302.70 µS/cm	0.20 mg/L	5.02 NTU	-79.3 mV	32.82 ft	160.00 ml/min
9/11/2024 10:25 AM	40:00	6.33 pH	20.84 °C	298.91 µS/cm	0.20 mg/L	3.45 NTU	-76.1 mV	32.91 ft	160.00 ml/min
9/11/2024 10:30 AM	45:00	6.33 pH	20.86 °C	300.73 µS/cm	0.11 mg/L	2.88 NTU	-76.0 mV	32.99 ft	160.00 ml/min
9/11/2024 10:35 AM	50:00	6.32 pH	20.96 °C	302.85 µS/cm	0.10 mg/L	2.20 NTU	-70.5 mV	33.07 ft	160.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/9/2024 12:12:05 PM
Project: Plant McDonough (8)
Operator Name: Ever Guillen

Location Name: B-82 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.65 ft** **Total Depth: 47.65 ft** **Initial Depth to Water: 14.77 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 7563.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 1.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1255

Weather Conditions:
Sample time

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/9/2024 12:12 PM	00:00	5.36 pH	29.30 °C	781.62 µS/cm	0.87 mg/L	10.00 NTU	109.1 mV	14.77 ft	200.00 ml/min
9/9/2024 12:13 PM	01:19	5.23 pH	25.69 °C	850.42 µS/cm	0.61 mg/L	9.68 NTU	159.3 mV	15.43 ft	200.00 ml/min
9/9/2024 12:18 PM	06:19	5.17 pH	24.86 °C	886.86 µS/cm	0.49 mg/L	7.22 NTU	247.5 mV	15.69 ft	180.00 ml/min
9/9/2024 12:23 PM	11:19	5.16 pH	24.96 °C	871.96 µS/cm	0.34 mg/L	5.10 NTU	377.0 mV	15.71 ft	180.00 ml/min
9/9/2024 12:28 PM	16:19	5.15 pH	25.06 °C	878.93 µS/cm	0.30 mg/L	3.29 NTU	280.0 mV	15.73 ft	180.00 ml/min
9/9/2024 12:33 PM	21:19	5.14 pH	25.20 °C	876.55 µS/cm	0.26 mg/L	1.96 NTU	404.2 mV	15.75 ft	180.00 ml/min
9/9/2024 12:38 PM	26:19	5.14 pH	25.06 °C	874.32 µS/cm	0.25 mg/L	0.87 NTU	412.9 mV	15.78 ft	180.00 ml/min
9/9/2024 12:43 PM	31:19	5.14 pH	24.89 °C	874.02 µS/cm	0.23 mg/L	0.81 NTU	412.3 mV	15.82 ft	180.00 ml/min
9/9/2024 12:48 PM	36:19	5.13 pH	25.14 °C	872.20 µS/cm	0.22 mg/L	0.72 NTU	405.1 mV	15.84 ft	180.00 ml/min
9/9/2024 12:53 PM	41:19	5.13 pH	25.02 °C	871.13 µS/cm	0.21 mg/L	0.82 NTU	411.8 mV	15.84 ft	180.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/6/2024 9:31:23 AM
Project: Plant McDonough (7)
Operator Name: Daniel Howard

Location Name: MCD-B-83 **Latitude: 33.823500809553835** **Longitude: -84.47563558018855** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.9 ft** **Total Depth: 48.9 ft** **Initial Depth to Water: 32.49 ft**	**Pump Type: QED BLADDER PUMP** **Tubing Type: LDPE** **Pump Intake From TOC: 43.9 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Sample time 0956.

Weather Conditions:
Partly cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/6/2024 9:31 AM	00:00	5.60 pH	22.22 °C	297.19 µS/cm	0.37 mg/L	4.94 NTU	76.3 mV	32.49 ft	150.00 ml/min
9/6/2024 9:36 AM	05:00	5.60 pH	21.64 °C	302.22 µS/cm	0.20 mg/L	3.96 NTU	104.7 mV	32.53 ft	150.00 ml/min
9/6/2024 9:41 AM	10:00	5.60 pH	21.56 °C	303.15 µS/cm	0.15 mg/L	3.25 NTU	149.3 mV	32.53 ft	150.00 ml/min
9/6/2024 9:46 AM	15:00	5.60 pH	21.60 °C	303.84 µS/cm	0.12 mg/L	2.62 NTU	124.9 mV	32.53 ft	150.00 ml/min
9/6/2024 9:51 AM	20:00	5.60 pH	21.56 °C	304.64 µS/cm	0.10 mg/L	1.90 NTU	174.5 mV	32.53 ft	150.00 ml/min
9/6/2024 9:56 AM	25:00	5.61 pH	21.57 °C	305.29 µS/cm	0.08 mg/L	1.62 NTU	140.2 mV	32.53 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-83	

Low-Flow Test Report:

Test Date / Time: 9/10/2024 11:49:15 AM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-B-88 **Latitude: 33.83284999992124** **Longitude: -84.47229252204716** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 65.06 ft** **Total Depth: 75.06 ft** **Initial Depth to Water: 44.4 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 70 m** **Estimated Total Volume Pumped: 17600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.64 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
Sunny 85

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 50	+/- 0.3	
9/10/2024 11:49 AM	00:00	5.47 pH	24.05 °C	848.85 µS/cm	7.43 mg/L	46.20 NTU	144.3 mV	44.99 ft	200.00 ml/min
9/10/2024 11:53 AM	04:00	5.45 pH	20.60 °C	929.66 µS/cm	2.94 mg/L	50.70 NTU	160.9 mV	45.05 ft	200.00 ml/min
9/10/2024 11:57 AM	08:00	5.45 pH	20.47 °C	934.95 µS/cm	2.95 mg/L	62.00 NTU	164.0 mV	45.09 ft	200.00 ml/min
9/10/2024 12:01 PM	12:00	5.46 pH	20.56 °C	929.51 µS/cm	3.03 mg/L	27.50 NTU	161.0 mV	44.95 ft	200.00 ml/min
9/10/2024 12:05 PM	16:00	5.46 pH	20.43 °C	928.78 µS/cm	3.20 mg/L	24.20 NTU	157.3 mV	45.04 ft	200.00 ml/min
9/10/2024 12:09 PM	20:00	5.45 pH	20.71 °C	931.79 µS/cm	2.80 mg/L	17.00 NTU	154.9 mV	45.04 ft	200.00 ml/min
9/10/2024 12:13 PM	24:00	5.45 pH	20.74 °C	927.84 µS/cm	3.19 mg/L	18.40 NTU	151.9 mV	45.04 ft	200.00 ml/min
9/10/2024 12:17 PM	28:00	5.46 pH	20.20 °C	924.81 µS/cm	3.13 mg/L	17.50 NTU	150.2 mV	45.04 ft	200.00 ml/min
9/10/2024 12:21 PM	32:00	5.47 pH	19.94 °C	927.82 µS/cm	3.31 mg/L	21.40 NTU	148.4 mV	45.04 ft	200.00 ml/min
9/10/2024 12:25 PM	36:00	5.49 pH	20.01 °C	923.67 µS/cm	3.64 mg/L	23.30 NTU	144.8 mV	45.04 ft	200.00 ml/min
9/10/2024 12:29 PM	40:00	5.48 pH	19.76 °C	922.87 µS/cm	3.55 mg/L	22.40 NTU	144.6 mV	45.04 ft	200.00 ml/min
9/10/2024 12:33 PM	44:00	5.87 pH	20.12 °C	900.84 µS/cm	10.24 mg/L	39.70 NTU	132.7 mV	45.04 ft	200.00 ml/min
9/10/2024 12:37 PM	48:00	5.89 pH	19.88 °C	904.61 µS/cm	11.01 mg/L	44.30 NTU	133.6 mV	45.04 ft	200.00 ml/min

9/10/2024 12:41 PM	52:00	5.57 pH	20.13 °C	912.27 µS/cm	6.49 mg/L	27.60 NTU	142.9 mV	45.04 ft	200.00 ml/min
9/10/2024 12:45 PM	56:00	5.56 pH	19.81 °C	911.04 µS/cm	6.04 mg/L	20.50 NTU	143.4 mV	45.04 ft	200.00 ml/min
9/10/2024 12:49 PM	01:00:00	5.55 pH	19.64 °C	910.51 µS/cm	5.66 mg/L	16.80 NTU	143.4 mV	45.04 ft	200.00 ml/min
9/10/2024 12:53 PM	01:04:00	5.54 pH	19.69 °C	912.36 µS/cm	5.58 mg/L	13.30 NTU	143.6 mV	45.04 ft	200.00 ml/min
9/10/2024 12:57 PM	01:08:00	5.55 pH	19.61 °C	915.43 µS/cm	5.67 mg/L	12.80 NTU	143.1 mV	45.04 ft	200.00 ml/min
9/10/2024 1:01 PM	01:12:00	5.55 pH	19.50 °C	915.40 µS/cm	5.62 mg/L	9.66 NTU	142.6 mV	45.04 ft	200.00 ml/min
9/10/2024 1:05 PM	01:16:00	5.55 pH	19.58 °C	916.89 µS/cm	5.38 mg/L	7.25 NTU	141.8 mV	45.04 ft	200.00 ml/min
9/10/2024 1:09 PM	01:20:00	5.55 pH	19.86 °C	915.85 µS/cm	5.52 mg/L	6.96 NTU	141.7 mV	45.04 ft	200.00 ml/min
9/10/2024 1:13 PM	01:24:00	5.53 pH	20.05 °C	929.33 µS/cm	5.37 mg/L	6.15 NTU	141.0 mV	45.04 ft	200.00 ml/min
9/10/2024 1:17 PM	01:28:00	5.54 pH	20.25 °C	927.35 µS/cm	5.43 mg/L	4.89 NTU	140.5 mV	45.04 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-88	

Low-Flow Test Report:

Test Date / Time: 9/4/2024 1:35:43 PM
Project: Plant McDonough 2024 SAGW02
Operator Name: Mark Mann

Location Name: MCD-B-92 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.6 ft** **Total Depth: 24.6 ft** **Initial Depth to Water: 7.08 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/4/2024 1:35 PM	00:00	4.57 pH	26.93 °C	985.27 µS/cm	0.47 mg/L	12.30 NTU	416.5 mV	7.08 ft	250.00 ml/min
9/4/2024 1:40 PM	05:00	4.57 pH	22.62 °C	1,054.3 µS/cm	0.24 mg/L	2.53 NTU	485.6 mV	7.18 ft	250.00 ml/min
9/4/2024 1:45 PM	10:00	4.57 pH	22.11 °C	1,049.8 µS/cm	0.19 mg/L	1.35 NTU	568.7 mV	7.20 ft	250.00 ml/min
9/4/2024 1:50 PM	15:00	4.58 pH	22.15 °C	1,044.1 µS/cm	0.18 mg/L	0.62 NTU	477.9 mV	7.21 ft	250.00 ml/min
9/4/2024 1:55 PM	20:00	4.58 pH	21.85 °C	1,040.7 µS/cm	0.17 mg/L	0.49 NTU	569.7 mV	7.21 ft	250.00 ml/min

Samples

Sample ID:	Description:
MCD-B-92	

Low-Flow Test Report:

Test Date / Time: 9/4/2024 1:04:18 PM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-B-93 **Latitude: 33.83275939154795** **Longitude: -84.47496358313083** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19.3 ft** **Total Depth: 29.3 ft** **Initial Depth to Water: 10.25 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 25 m** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Extra rads

Weather Conditions:
Sunny 85

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 5	+/- 50	+/- 0.3	
9/4/2024 1:04 PM	00:00	4.87 pH	27.35 °C	940.10 µS/cm	1.29 mg/L	1.55 NTU	373.2 mV	10.25 ft	200.00 ml/min
9/4/2024 1:08 PM	04:00	4.82 pH	24.32 °C	991.50 µS/cm	0.27 mg/L	1.11 NTU	451.2 mV	10.58 ft	200.00 ml/min
9/4/2024 1:12 PM	08:00	4.81 pH	24.16 °C	994.95 µS/cm	0.21 mg/L	0.56 NTU	457.6 mV	10.58 ft	200.00 ml/min
9/4/2024 1:16 PM	12:00	4.81 pH	23.91 °C	993.92 µS/cm	0.18 mg/L	1.09 NTU	455.4 mV	10.58 ft	200.00 ml/min
9/4/2024 1:20 PM	16:00	4.82 pH	23.94 °C	986.71 µS/cm	0.16 mg/L	0.73 NTU	452.4 mV	10.58 ft	200.00 ml/min
9/4/2024 1:24 PM	20:00	4.81 pH	23.84 °C	996.17 µS/cm	0.15 mg/L	0.56 NTU	454.0 mV	10.58 ft	200.00 ml/min
9/4/2024 1:28 PM	24:00	4.81 pH	23.95 °C	1,000.6 µS/cm	0.14 mg/L	0.99 NTU	456.3 mV	10.58 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-93	Extra rads

Low-Flow Test Report:

Test Date / Time: 9/4/2024 11:18:50 AM
Project: SCS Plant McDonough (2)
Operator Name: DCB

Location Name: MCD-B-97 **Latitude: 33.832929837548946** **Longitude: -84.47488093756556** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.71 ft** **Total Depth: 30.71 ft** **Initial Depth to Water: 7.35 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 25 m** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
Sunny 80

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 5	+/- 50	+/- 0.3	
9/4/2024 11:18 AM	00:00	5.72 pH	25.66 °C	1,439.2 µS/cm	3.91 mg/L	8.68 NTU	-3.0 mV	7.35 ft	175.00 ml/min
9/4/2024 11:22 AM	04:00	5.60 pH	24.28 °C	1,448.0 µS/cm	0.32 mg/L	3.80 NTU	47.4 mV	7.35 ft	200.00 ml/min
9/4/2024 11:26 AM	08:00	5.59 pH	23.90 °C	1,459.1 µS/cm	0.20 mg/L	6.61 NTU	98.3 mV	7.35 ft	200.00 ml/min
9/4/2024 11:30 AM	12:00	5.60 pH	24.15 °C	1,447.1 µS/cm	0.15 mg/L	6.99 NTU	169.0 mV	7.35 ft	225.00 ml/min
9/4/2024 11:34 AM	16:00	5.61 pH	23.27 °C	1,446.0 µS/cm	0.12 mg/L	2.96 NTU	81.8 mV	7.35 ft	225.00 ml/min
9/4/2024 11:38 AM	20:00	5.60 pH	23.41 °C	1,447.4 µS/cm	0.08 mg/L	1.93 NTU	8.6 mV	7.35 ft	225.00 ml/min
9/4/2024 11:42 AM	24:00	5.60 pH	23.34 °C	1,457.2 µS/cm	0.08 mg/L	1.25 NTU	5.8 mV	7.35 ft	225.00 ml/min

Samples

Sample ID:	Description:
MCD-B-97	

Low-Flow Test Report:

Test Date / Time: 9/5/2024 9:45:19 AM
Project: Plant McDonough 2024 SAGW02 (2)
Operator Name: Mark Mann

Location Name: MCD-B-98 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 9.01 ft** **Total Depth: 19.01 ft** **Initial Depth to Water: 11.05 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 18.5 ft** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/5/2024 9:45 AM	00:00	6.34 pH	27.75 °C	417.09 µS/cm	6.33 mg/L	195.00 NTU	155.1 mV	11.05 ft	100.00 ml/min
9/5/2024 9:50 AM	05:00	6.04 pH	21.95 °C	507.47 µS/cm	3.86 mg/L	157.00 NTU	149.9 mV	11.73 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-98	Sampled AM 09/05/24 after purged dry 09/04/24

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 9:41:21 AM
Project: Plant McDonough (10)
Operator Name: Ever Guillen

Location Name: B-101D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 64.9 ft** **Total Depth: 74.9 ft** **Initial Depth to Water: 32.35 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 69.9 ft** **Estimated Total Volume Pumped: 6500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1040

Weather Conditions:
Hot, humid,cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/10/2024 9:41 AM	00:00	7.09 pH	22.29 °C	760.70 µS/cm	5.22 mg/L	18.40 NTU	66.9 mV	32.35 ft	200.00 ml/min
9/10/2024 9:46 AM	05:00	6.29 pH	20.27 °C	865.98 µS/cm	2.64 mg/L	16.20 NTU	65.0 mV	34.25 ft	200.00 ml/min
9/10/2024 9:51 AM	10:00	6.26 pH	21.33 °C	864.26 µS/cm	2.67 mg/L	12.20 NTU	72.1 mV	34.44 ft	100.00 ml/min
9/10/2024 9:56 AM	15:00	6.26 pH	22.18 °C	847.60 µS/cm	2.52 mg/L	11.30 NTU	78.5 mV	34.89 ft	100.00 ml/min
9/10/2024 10:01 AM	20:00	6.25 pH	21.41 °C	848.49 µS/cm	2.27 mg/L	10.40 NTU	81.3 mV	34.96 ft	100.00 ml/min
9/10/2024 10:06 AM	25:00	6.25 pH	21.32 °C	843.52 µS/cm	2.15 mg/L	9.92 NTU	82.1 mV	35.09 ft	100.00 ml/min
9/10/2024 10:11 AM	30:00	6.25 pH	21.28 °C	838.77 µS/cm	2.05 mg/L	7.34 NTU	84.1 mV	35.27 ft	100.00 ml/min
9/10/2024 10:16 AM	35:00	6.25 pH	21.28 °C	836.94 µS/cm	1.97 mg/L	5.43 NTU	87.5 mV	35.39 ft	100.00 ml/min
9/10/2024 10:21 AM	40:00	6.25 pH	21.18 °C	833.46 µS/cm	1.85 mg/L	4.46 NTU	90.7 mV	35.46 ft	100.00 ml/min
9/10/2024 10:26 AM	45:00	6.25 pH	21.01 °C	830.71 µS/cm	1.71 mg/L	3.54 NTU	90.7 mV	35.52 ft	100.00 ml/min
9/10/2024 10:31 AM	50:00	6.24 pH	21.15 °C	836.66 µS/cm	1.62 mg/L	2.96 NTU	91.9 mV	35.59 ft	100.00 ml/min
9/10/2024 10:36 AM	55:00	6.24 pH	21.91 °C	837.54 µS/cm	1.58 mg/L	3.21 NTU	90.5 mV	35.63 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:18:45 PM
Project: Plant McDonough (11)
Operator Name: Ever Guillen

Location Name: B-102D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.4 ft** **Total Depth: 84.4 ft** **Initial Depth to Water: 32.07 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 79.4 ft** **Estimated Total Volume Pumped: 7350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.51 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1305

Weather Conditions:
Hot, humid,cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/10/2024 12:18 PM	00:00	6.55 pH	28.66 °C	622.10 µS/cm	1.41 mg/L	11.20 NTU	92.4 mV	32.07 ft	200.00 ml/min
9/10/2024 12:23 PM	05:00	5.78 pH	27.38 °C	649.25 µS/cm	1.67 mg/L	8.17 NTU	163.1 mV	32.41 ft	200.00 ml/min
9/10/2024 12:28 PM	10:00	5.46 pH	27.20 °C	650.14 µS/cm	0.85 mg/L	5.12 NTU	197.9 mV	32.48 ft	150.00 ml/min
9/10/2024 12:33 PM	15:00	5.43 pH	27.46 °C	655.04 µS/cm	0.65 mg/L	3.05 NTU	214.0 mV	32.51 ft	150.00 ml/min
9/10/2024 12:38 PM	20:00	5.42 pH	27.65 °C	649.37 µS/cm	0.54 mg/L	2.18 NTU	228.9 mV	32.53 ft	150.00 ml/min
9/10/2024 12:43 PM	25:00	5.41 pH	26.96 °C	631.88 µS/cm	0.39 mg/L	1.19 NTU	320.5 mV	32.55 ft	150.00 ml/min
9/10/2024 12:48 PM	30:00	5.41 pH	25.32 °C	642.78 µS/cm	0.32 mg/L	2.02 NTU	328.8 mV	32.58 ft	150.00 ml/min
9/10/2024 12:53 PM	35:00	5.40 pH	24.87 °C	651.97 µS/cm	0.25 mg/L	2.15 NTU	244.6 mV	32.58 ft	150.00 ml/min
9/10/2024 12:58 PM	40:00	5.41 pH	24.87 °C	646.05 µS/cm	0.24 mg/L	1.76 NTU	326.0 mV	32.58 ft	150.00 ml/min
9/10/2024 1:03 PM	45:00	5.40 pH	24.92 °C	646.09 µS/cm	0.22 mg/L	1.54 NTU	236.7 mV	32.58 ft	150.00 ml/min
9/10/2024 1:04 PM	45:40	5.40 pH	24.87 °C	649.98 µS/cm	0.22 mg/L		210.9 mV	32.58 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 10:45:10 AM
Project: Plant McDonough 2024 SAGW02 (4)
Operator Name: Mark Mann

Location Name: MCD-B-104D **Latitude: 33.82498357917965** **Longitude: -84.47580165105005** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.41 ft** **Total Depth: 62.41 ft** **Initial Depth to Water: 8.95 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 6175 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 6.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2024 10:45 AM	00:00	6.34 pH	30.63 °C	958.32 µS/cm	3.38 mg/L	1.47 NTU	-79.9 mV	8.95 ft	150.00 ml/min
9/10/2024 10:50 AM	05:00	6.73 pH	23.20 °C	1,077.2 µS/cm	0.32 mg/L	2.98 NTU	-96.4 mV	10.83 ft	150.00 ml/min
9/10/2024 10:55 AM	10:00	6.38 pH	22.77 °C	1,049.2 µS/cm	0.21 mg/L	1.73 NTU	-182.1 mV	12.02 ft	125.00 ml/min
9/10/2024 11:00 AM	15:00	6.38 pH	23.56 °C	1,047.6 µS/cm	0.23 mg/L	2.34 NTU	-124.0 mV	12.62 ft	110.00 ml/min
9/10/2024 11:05 AM	20:00	6.51 pH	23.57 °C	1,049.8 µS/cm	0.24 mg/L	2.64 NTU	-124.5 mV	13.03 ft	100.00 ml/min
9/10/2024 11:10 AM	25:00	6.54 pH	24.00 °C	1,056.5 µS/cm	0.25 mg/L	2.54 NTU	-124.2 mV	13.74 ft	100.00 ml/min
9/10/2024 11:15 AM	30:00	6.55 pH	23.94 °C	1,059.9 µS/cm	0.24 mg/L	1.76 NTU	-119.5 mV	14.06 ft	100.00 ml/min
9/10/2024 11:20 AM	35:00	6.54 pH	23.92 °C	1,056.4 µS/cm	0.22 mg/L	1.94 NTU	-183.7 mV	14.41 ft	100.00 ml/min
9/10/2024 11:25 AM	40:00	6.50 pH	24.02 °C	1,060.6 µS/cm	0.21 mg/L	2.50 NTU	-113.4 mV	14.65 ft	100.00 ml/min
9/10/2024 11:30 AM	45:00	6.47 pH	24.37 °C	1,060.7 µS/cm	0.21 mg/L	2.78 NTU	-109.9 mV	14.88 ft	100.00 ml/min
9/10/2024 11:35 AM	50:00	6.43 pH	24.47 °C	1,051.9 µS/cm	0.21 mg/L	3.81 NTU	-104.9 mV	14.98 ft	100.00 ml/min
9/10/2024 11:40 AM	55:00	6.41 pH	24.57 °C	1,051.0 µS/cm	0.20 mg/L	2.82 NTU	-100.0 mV	15.09 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-104D	

Low-Flow Test Report:

Test Date / Time: 9/9/2024 1:33:05 PM
Project: SCS Plant McDonough (3)
Operator Name: LND

Location Name: MCD-B-106D **Latitude: 33.833256816350726** **Longitude: -84.47030060700159** **Well Diameter: 2 cm** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69.4 ft** **Total Depth: 79.4 ft** **Initial Depth to Water: 40.39 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 74.4 ft** **Estimated Total Volume Pumped: 6400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.43 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/9/2024 1:34 PM	00:00	5.85 pH	27.33 °C	337.06 µS/cm	2.80 mg/L	1.14 NTU	139.8 mV	40.77 ft	200.00 ml/min
9/9/2024 1:38 PM	04:00	5.87 pH	23.73 °C	353.09 µS/cm	2.32 mg/L	0.88 NTU	123.0 mV	40.81 ft	200.00 ml/min
9/9/2024 1:42 PM	08:00	5.88 pH	23.73 °C	353.51 µS/cm	2.97 mg/L	0.76 NTU	116.8 mV	40.82 ft	200.00 ml/min
9/9/2024 1:46 PM	12:00	5.86 pH	24.13 °C	357.45 µS/cm	3.45 mg/L	0.72 NTU	117.2 mV	40.82 ft	200.00 ml/min
9/9/2024 1:50 PM	16:00	5.89 pH	24.32 °C	353.65 µS/cm	3.87 mg/L	0.69 NTU	115.8 mV	40.82 ft	200.00 ml/min
9/9/2024 1:54 PM	20:00	5.89 pH	23.86 °C	351.98 µS/cm	3.99 mg/L	0.64 NTU	114.5 mV	40.82 ft	200.00 ml/min
9/9/2024 1:58 PM	24:00	5.90 pH	23.54 °C	345.53 µS/cm	4.16 mg/L	0.69 NTU	113.2 mV	40.82 ft	200.00 ml/min
9/9/2024 2:02 PM	28:00	5.92 pH	22.79 °C	345.61 µS/cm	4.32 mg/L	0.66 NTU	111.1 mV	40.82 ft	200.00 ml/min
9/9/2024 2:06 PM	32:00	5.94 pH	22.96 °C	348.36 µS/cm	4.75 mg/L	0.51 NTU	111.2 mV	40.82 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/9/2024 11:04:09 AM
Project: McDonough SAGW01 2024 (35)
Operator Name: Mark Mann

Location Name: MCD-B-107D **Latitude: 33.82657530730402** **Longitude: -84.47547343521079** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 75.3 ft** **Total Depth: 85.3 ft** **Initial Depth to Water: 25.84 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 80 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0.19 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2024 11:04 AM	00:00	6.11 pH	30.71 °C	545.94 µS/cm	3.78 mg/L	1.30 NTU	-56.3 mV	25.84 ft	225.00 ml/min
9/9/2024 11:09 AM	05:00	5.84 pH	22.24 °C	689.02 µS/cm	0.60 mg/L	1.68 NTU	-89.9 mV	26.00 ft	225.00 ml/min
9/9/2024 11:14 AM	10:00	5.84 pH	21.92 °C	688.05 µS/cm	0.49 mg/L	1.24 NTU	-122.1 mV	25.59 ft	225.00 ml/min
9/9/2024 11:19 AM	15:00	5.84 pH	21.62 °C	692.77 µS/cm	0.31 mg/L	0.73 NTU	-117.9 mV	26.02 ft	225.00 ml/min
9/9/2024 11:24 AM	20:00	5.82 pH	21.63 °C	692.52 µS/cm	0.30 mg/L	0.57 NTU	-109.9 mV	26.03 ft	225.00 ml/min

Samples

Sample ID:	Description:
MCD-B-107D	

Low-Flow Test Report:

Test Date / Time: 9/9/2024 12:18:20 PM
Project: McDonough SAGW02 2024
Operator Name: Mark Mann

Location Name: MCD-B-108D **Latitude: 33.82675241682112** **Longitude: -84.47710247718214** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69 ft** **Total Depth: 79 ft** **Initial Depth to Water: 24.7 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 75 ft** **Estimated Total Volume Pumped: 23610.834 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.47 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2024 12:18 PM	00:00	5.89 pH	29.05 °C	645.82 µS/cm	0.53 mg/L	239.00 NTU	33.9 mV	24.70 ft	250.00 ml/min
9/9/2024 12:23 PM	05:00	5.83 pH	22.04 °C	725.08 µS/cm	0.23 mg/L	160.00 NTU	49.4 mV	25.62 ft	250.00 ml/min
9/9/2024 12:28 PM	10:00	5.83 pH	21.47 °C	727.80 µS/cm	0.17 mg/L	345.00 NTU	51.5 mV	25.73 ft	250.00 ml/min
9/9/2024 12:33 PM	15:00	5.83 pH	21.52 °C	729.76 µS/cm	0.12 mg/L	239.00 NTU	53.5 mV	25.73 ft	250.00 ml/min
9/9/2024 12:38 PM	20:00	5.83 pH	21.68 °C	729.04 µS/cm	0.12 mg/L	235.00 NTU	70.6 mV	25.78 ft	250.00 ml/min
9/9/2024 12:43 PM	25:00	5.83 pH	21.46 °C	733.20 µS/cm	0.12 mg/L	176.00 NTU	54.0 mV	25.79 ft	250.00 ml/min
9/9/2024 12:48 PM	30:00	5.84 pH	21.23 °C	726.39 µS/cm	0.10 mg/L	175.00 NTU	49.8 mV	25.79 ft	250.00 ml/min
9/9/2024 12:53 PM	35:00	5.81 pH	21.46 °C	739.64 µS/cm	0.10 mg/L	221.00 NTU	69.0 mV	25.81 ft	250.00 ml/min
9/9/2024 12:58 PM	40:00	5.81 pH	21.94 °C	729.61 µS/cm	0.09 mg/L	115.00 NTU	54.7 mV	25.80 ft	250.00 ml/min
9/9/2024 1:03 PM	45:00	5.82 pH	21.98 °C	733.17 µS/cm	0.08 mg/L	55.90 NTU	68.3 mV	25.78 ft	250.00 ml/min
9/9/2024 1:08 PM	50:00	5.82 pH	22.06 °C	730.71 µS/cm	0.07 mg/L	27.60 NTU	52.7 mV	25.78 ft	250.00 ml/min
9/9/2024 1:11 PM	53:19	5.81 pH	22.18 °C	730.06 µS/cm	0.07 mg/L	22.10 NTU	53.6 mV	25.78 ft	250.00 ml/min
9/9/2024 1:16 PM	58:19	5.81 pH	22.11 °C	731.16 µS/cm	0.07 mg/L	19.10 NTU	61.9 mV	25.78 ft	200.00 ml/min

9/9/2024 1:21 PM	01:02:51	5.80 pH	22.89 °C	725.59 µS/cm	0.09 mg/L	9.95 NTU	53.8 mV	25.66 ft	200.00 ml/min
9/9/2024 1:26 PM	01:07:51	5.80 pH	22.98 °C	730.60 µS/cm	0.08 mg/L	10.40 NTU	49.1 mV	25.62 ft	200.00 ml/min
9/9/2024 1:31 PM	01:12:51	5.78 pH	23.71 °C	740.46 µS/cm	0.10 mg/L	9.91 NTU	59.7 mV	25.45 ft	150.00 ml/min
9/9/2024 1:36 PM	01:17:51	5.78 pH	24.55 °C	728.63 µS/cm	0.10 mg/L	6.58 NTU	48.9 mV	25.38 ft	150.00 ml/min
9/9/2024 1:41 PM	01:22:51	5.78 pH	24.71 °C	729.55 µS/cm	0.10 mg/L	5.19 NTU	48.1 mV	25.32 ft	150.00 ml/min
9/9/2024 1:46 PM	01:27:51	5.77 pH	25.10 °C	733.46 µS/cm	0.11 mg/L	4.37 NTU	47.6 mV	25.28 ft	125.00 ml/min
9/9/2024 1:51 PM	01:32:51	5.76 pH	25.87 °C	733.42 µS/cm	0.12 mg/L	4.59 NTU	58.5 mV	25.23 ft	125.00 ml/min
9/9/2024 1:56 PM	01:37:51	5.76 pH	26.07 °C	742.55 µS/cm	0.12 mg/L	4.21 NTU	48.2 mV	25.20 ft	125.00 ml/min
9/9/2024 2:01 PM	01:42:51	5.77 pH	25.91 °C	721.26 µS/cm	0.12 mg/L	3.62 NTU	49.0 mV	25.21 ft	100.00 ml/min
9/9/2024 2:06 PM	01:47:51	5.78 pH	24.34 °C	727.45 µS/cm	0.12 mg/L	3.76 NTU	61.1 mV	25.20 ft	100.00 ml/min
9/9/2024 2:11 PM	01:52:51	5.78 pH	23.57 °C	731.99 µS/cm	0.13 mg/L	3.22 NTU	48.5 mV	25.18 ft	100.00 ml/min
9/9/2024 2:16 PM	01:57:51	5.77 pH	24.92 °C	734.93 µS/cm	0.13 mg/L	2.94 NTU	50.3 mV	25.18 ft	100.00 ml/min
9/9/2024 2:21 PM	02:02:51	5.76 pH	25.94 °C	732.66 µS/cm	0.13 mg/L	2.32 NTU	51.4 mV	25.17 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-108D	

Low-Flow Test Report:

Test Date / Time: 9/9/2024 9:19:54 AM
Project: SCS Plant McDonough
Operator Name: LND

Location Name: MCD-B-111D **Latitude: 33.832580499699674** **Longitude: -84.47581272859752** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.2 ft** **Total Depth: 84.2 ft** **Initial Depth to Water: 13.21 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 79.20 ft** **Estimated Total Volume Pumped: 8240 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.83 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/9/2024 9:19 AM	00:00	7.20 pH	22.91 °C	908.23 µS/cm	1.42 mg/L	4.89 NTU	-137.3 mV	13.67 ft	200.00 ml/min
9/9/2024 9:23 AM	04:00	7.42 pH	21.45 °C	963.26 µS/cm	0.56 mg/L	0.76 NTU	-163.5 mV	13.88 ft	200.00 ml/min
9/9/2024 9:27 AM	08:00	7.55 pH	21.28 °C	968.80 µS/cm	0.36 mg/L	1.13 NTU	-174.7 mV	13.91 ft	200.00 ml/min
9/9/2024 9:31 AM	12:00	7.54 pH	21.27 °C	949.49 µS/cm	0.30 mg/L	0.91 NTU	-166.0 mV	14.01 ft	200.00 ml/min
9/9/2024 9:35 AM	16:00	7.48 pH	21.59 °C	901.27 µS/cm	0.26 mg/L	0.55 NTU	-149.2 mV	14.04 ft	180.00 ml/min
9/9/2024 9:39 AM	20:00	7.42 pH	21.98 °C	881.75 µS/cm	0.25 mg/L	0.21 NTU	-139.8 mV	14.04 ft	180.00 ml/min
9/9/2024 9:43 AM	24:00	7.34 pH	22.08 °C	843.87 µS/cm	0.25 mg/L	0.29 NTU	-124.4 mV	14.04 ft	180.00 ml/min
9/9/2024 9:47 AM	28:00	7.25 pH	22.20 °C	819.91 µS/cm	0.25 mg/L	0.19 NTU	-114.2 mV	14.04 ft	180.00 ml/min
9/9/2024 9:51 AM	32:00	7.20 pH	22.37 °C	807.84 µS/cm	0.25 mg/L	0.21 NTU	-108.5 mV	14.04 ft	180.00 ml/min
9/9/2024 9:55 AM	36:00	7.16 pH	22.75 °C	794.84 µS/cm	0.25 mg/L	0.20 NTU	-105.9 mV	14.04 ft	180.00 ml/min
9/9/2024 9:59 AM	40:00	7.13 pH	22.90 °C	784.01 µS/cm	0.25 mg/L	0.21 NTU	-103.7 mV	14.04 ft	180.00 ml/min
9/9/2024 10:03 AM	44:00	7.11 pH	22.81 °C	774.85 µS/cm	0.25 mg/L	0.19 NTU	-100.5 mV	14.04 ft	180.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/9/2024 2:46:52 PM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-B-120D **Latitude: 33.83222751084746** **Longitude: -84.4767894609974** **Well Diameter: 2 in** **Casing Type: pvc** **Screen Length: 10 ft** **Top of Screen: 62.08 ft** **Total Depth: 72.08 ft** **Initial Depth to Water: 36.58 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 67 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
sunny 85

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/9/2024 2:46 PM	00:00	5.97 pH	33.35 °C	636.80 µS/cm	4.49 mg/L	4.51 NTU	28.3 mV	36.58 ft	200.00 ml/min
9/9/2024 2:51 PM	05:00	5.40 pH	22.48 °C	786.92 µS/cm	0.66 mg/L	6.61 NTU	171.0 mV	36.58 ft	200.00 ml/min
9/9/2024 2:56 PM	10:00	5.37 pH	21.63 °C	793.82 µS/cm	0.28 mg/L	3.68 NTU	168.8 mV	36.58 ft	200.00 ml/min
9/9/2024 3:01 PM	15:00	5.36 pH	21.48 °C	793.47 µS/cm	0.20 mg/L	2.48 NTU	162.2 mV	36.58 ft	200.00 ml/min
9/9/2024 3:06 PM	20:00	5.35 pH	21.51 °C	788.22 µS/cm	0.16 mg/L	3.04 NTU	180.8 mV	36.58 ft	200.00 ml/min
9/9/2024 3:11 PM	25:00	5.34 pH	21.55 °C	785.15 µS/cm	0.12 mg/L	2.41 NTU	160.6 mV	36.58 ft	200.00 ml/min
9/9/2024 3:16 PM	30:00	5.33 pH	21.32 °C	784.90 µS/cm	0.10 mg/L	2.92 NTU	156.1 mV	36.58 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-120D	

Low-Flow Test Report:

Test Date / Time: 9/10/2024 1:11:09 PM
Project: SCS Plant McDonough (6)
Operator Name: LND

Location Name: MCD-B-122D **Latitude: 33.82430503951941** **Longitude: -84.4752410402156** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.63 ft** **Total Depth: 80.63 ft** **Initial Depth to Water: 31.65 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake from TOC: 75.6 ft** **Estimated Total Volume Pumped: 3400 mL** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/10/2024 1:11 PM	00:00	6.20 pH	30.80 °C	375.74 µS/cm	1.47 mg/L	6.22 NTU	-66.3 mV	32.24 ft	100.00 ml/min
9/10/2024 1:16 PM	05:00	6.13 pH	27.12 °C	388.70 µS/cm	0.59 mg/L	2.45 NTU	-73.4 mV	32.62 ft	100.00 ml/min
9/10/2024 1:21 PM	10:00	6.12 pH	26.05 °C	394.29 µS/cm	0.41 mg/L	1.97 NTU	-84.0 mV	33.01 ft	100.00 ml/min
9/10/2024 1:26 PM	15:00	6.10 pH	26.35 °C	393.49 µS/cm	0.30 mg/L	1.79 NTU	-90.5 mV	33.15 ft	100.00 ml/min
9/10/2024 1:31 PM	20:00	6.07 pH	26.55 °C	399.27 µS/cm	0.26 mg/L	1.62 NTU	-94.8 mV	33.31 ft	100.00 ml/min
9/10/2024 1:36 PM	25:00	6.03 pH	26.86 °C	411.04 µS/cm	0.24 mg/L	1.29 NTU	-88.0 mV	33.33 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2024 10:33:18 AM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-B-125D **Latitude: 33.832190817576645** **Longitude: -84.47693112650991** **Well Diameter: 2 in** **Casing Type: pvc** **Screen Length: 10 ft** **Top of Screen: 135 ft** **Total Depth: 145 ft** **Initial Depth to Water: 24.7 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 140 ft** **Estimated Total Volume Pumped: 32000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 26.89 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
Sunny, 80

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/9/2024 10:33 AM	00:00	6.16 pH	24.80 °C	1,001.5 µS/cm	0.92 mg/L	6.41 NTU	-18.7 mV	25.05 ft	200.00 ml/min
9/9/2024 10:38 AM	05:00	6.23 pH	22.08 °C	1,069.5 µS/cm	10.91 mg/L	6.01 NTU	17.5 mV	26.09 ft	200.00 ml/min
9/9/2024 10:43 AM	10:00	6.26 pH	22.57 °C	1,027.9 µS/cm	14.56 mg/L	5.14 NTU	21.3 mV	26.82 ft	200.00 ml/min
9/9/2024 10:48 AM	15:00	6.26 pH	23.37 °C	1,015.8 µS/cm	9.52 mg/L	5.59 NTU	16.1 mV	27.09 ft	200.00 ml/min
9/9/2024 10:53 AM	20:00	6.24 pH	21.69 °C	1,020.2 µS/cm	14.62 mg/L	5.09 NTU	24.9 mV	28.35 ft	200.00 ml/min
9/9/2024 10:58 AM	25:00	6.20 pH	21.52 °C	1,033.3 µS/cm	14.13 mg/L	4.88 NTU	26.2 mV	30.04 ft	200.00 ml/min
9/9/2024 11:03 AM	30:00	6.19 pH	21.59 °C	1,052.8 µS/cm	12.07 mg/L	4.22 NTU	22.6 mV	29.25 ft	200.00 ml/min
9/9/2024 11:08 AM	35:00	6.17 pH	20.98 °C	1,014.6 µS/cm	11.50 mg/L	3.16 NTU	25.5 mV	31.15 ft	200.00 ml/min
9/9/2024 11:13 AM	40:00	6.15 pH	22.87 °C	919.37 µS/cm	11.24 mg/L	3.54 NTU	23.6 mV	32.58 ft	200.00 ml/min
9/9/2024 11:18 AM	45:00	6.13 pH	22.66 °C	1,017.7 µS/cm	10.59 mg/L	4.00 NTU	24.8 mV	33.61 ft	200.00 ml/min
9/9/2024 11:23 AM	50:00	6.13 pH	22.63 °C	1,013.5 µS/cm	11.41 mg/L	3.74 NTU	25.9 mV	34.15 ft	200.00 ml/min
9/9/2024 11:28 AM	55:00	6.12 pH	22.70 °C	1,050.7 µS/cm	10.69 mg/L	3.15 NTU	25.9 mV	35.24 ft	200.00 ml/min
9/9/2024 11:33 AM	01:00:00	6.13 pH	22.86 °C	1,011.1 µS/cm	10.84 mg/L	3.05 NTU	25.4 mV	36.23 ft	200.00 ml/min

9/9/2024 11:38 AM	01:05:00	6.12 pH	24.82 °C	1,022.8 µS/cm	9.12 mg/L	3.44 NTU	20.4 mV	36.53 ft	200.00 ml/min
9/9/2024 11:43 AM	01:10:00	6.12 pH	25.00 °C	1,008.3 µS/cm	9.05 mg/L	4.56 NTU	24.4 mV	37.05 ft	200.00 ml/min
9/9/2024 11:48 AM	01:15:00	6.11 pH	24.00 °C	1,021.7 µS/cm	10.72 mg/L	3.52 NTU	26.8 mV	37.80 ft	200.00 ml/min
9/9/2024 11:53 AM	01:20:00	6.11 pH	23.55 °C	1,025.5 µS/cm	10.26 mg/L	3.98 NTU	25.3 mV	38.70 ft	200.00 ml/min
9/9/2024 11:58 AM	01:25:00	6.11 pH	23.47 °C	1,019.9 µS/cm	9.21 mg/L	3.06 NTU	26.2 mV	39.65 ft	200.00 ml/min
9/9/2024 12:03 PM	01:30:00	6.11 pH	24.05 °C	1,035.5 µS/cm	7.79 mg/L	3.01 NTU	27.7 mV	40.06 ft	200.00 ml/min
9/9/2024 12:08 PM	01:35:00	6.11 pH	23.34 °C	1,016.6 µS/cm	8.87 mg/L	3.95 NTU	26.6 mV	41.00 ft	200.00 ml/min
9/9/2024 12:13 PM	01:40:00	6.10 pH	24.09 °C	1,028.1 µS/cm	10.41 mg/L	3.99 NTU	27.3 mV	41.89 ft	200.00 ml/min
9/9/2024 12:18 PM	01:45:00	6.08 pH	24.05 °C	1,018.8 µS/cm	10.26 mg/L	3.25 NTU	27.7 mV	42.76 ft	200.00 ml/min
9/9/2024 12:23 PM	01:50:00	6.10 pH	24.27 °C	992.13 µS/cm	9.19 mg/L	4.04 NTU	27.5 mV	43.60 ft	200.00 ml/min
9/9/2024 12:28 PM	01:55:00	6.10 pH	24.02 °C	1,024.4 µS/cm	7.98 mg/L	3.88 NTU	28.2 mV	44.44 ft	200.00 ml/min
9/9/2024 12:33 PM	02:00:00	6.10 pH	24.19 °C	1,021.5 µS/cm	8.57 mg/L	4.05 NTU	27.4 mV	45.21 ft	200.00 ml/min
9/9/2024 12:38 PM	02:05:00	6.10 pH	23.92 °C	1,033.4 µS/cm	10.61 mg/L	3.01 NTU	29.1 mV	45.89 ft	200.00 ml/min
9/9/2024 12:43 PM	02:10:00	6.11 pH	23.98 °C	1,032.0 µS/cm	10.89 mg/L	3.00 NTU	29.1 mV	46.75 ft	200.00 ml/min
9/9/2024 12:48 PM	02:15:00	6.10 pH	24.16 °C	958.30 µS/cm	9.80 mg/L	3.46 NTU	29.5 mV	47.43 ft	200.00 ml/min
9/9/2024 12:53 PM	02:20:00	6.09 pH	24.15 °C	1,024.7 µS/cm	8.58 mg/L	3.05 NTU	30.7 mV	48.32 ft	200.00 ml/min
9/9/2024 12:58 PM	02:25:00	6.11 pH	23.09 °C	1,022.5 µS/cm	9.39 mg/L	2.52 NTU	29.4 mV	49.10 ft	200.00 ml/min
9/9/2024 1:03 PM	02:30:00	6.11 pH	23.78 °C	1,035.0 µS/cm	10.32 mg/L	3.46 NTU	29.9 mV	49.96 ft	200.00 ml/min
9/9/2024 1:08 PM	02:35:00	6.10 pH	23.80 °C	1,031.7 µS/cm	10.37 mg/L	3.78 NTU	29.5 mV	50.75 ft	200.00 ml/min
9/9/2024 1:13 PM	02:40:00	6.11 pH	23.60 °C	1,037.9 µS/cm	9.95 mg/L	3.98 NTU	29.0 mV	51.59 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-125D	

Low-Flow Test Report:

Test Date / Time: 9/9/2024 1:17:46 PM
Project: Plant McDonough (9)
Operator Name: Daniel Howard

Location Name: MCD-B-62 **Latitude: 33.82641877556422** **Longitude: -84.48241639463635** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29.62 ft** **Total Depth: 39.62 ft** **Initial Depth to Water: 17.83 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 34.6 ft** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Sample time 1437.

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2024 1:17 PM	00:00	6.69 pH	23.91 °C	498.81 µS/cm	0.68 mg/L	35.00 NTU	1.2 mV	17.83 ft	150.00 ml/min
9/9/2024 1:22 PM	05:00	6.71 pH	22.15 °C	511.25 µS/cm	0.33 mg/L	26.50 NTU	-16.9 mV	18.01 ft	150.00 ml/min
9/9/2024 1:27 PM	10:00	6.72 pH	21.78 °C	510.32 µS/cm	0.30 mg/L	20.20 NTU	-5.6 mV	18.01 ft	150.00 ml/min
9/9/2024 1:32 PM	15:00	6.73 pH	21.77 °C	508.91 µS/cm	0.30 mg/L	21.90 NTU	-15.4 mV	18.01 ft	150.00 ml/min
9/9/2024 1:37 PM	20:00	6.71 pH	21.71 °C	477.02 µS/cm	0.39 mg/L	33.10 NTU	-1.3 mV	18.01 ft	150.00 ml/min
9/9/2024 1:42 PM	25:00	6.63 pH	21.86 °C	425.83 µS/cm	0.27 mg/L	27.70 NTU	-11.9 mV	18.01 ft	150.00 ml/min
9/9/2024 1:47 PM	30:00	6.55 pH	21.76 °C	381.20 µS/cm	0.26 mg/L	20.20 NTU	-12.6 mV	18.01 ft	150.00 ml/min
9/9/2024 1:52 PM	35:00	6.50 pH	21.89 °C	353.53 µS/cm	0.24 mg/L	16.10 NTU	-2.5 mV	18.01 ft	150.00 ml/min
9/9/2024 1:57 PM	40:00	6.45 pH	22.04 °C	336.71 µS/cm	0.23 mg/L	14.70 NTU	-9.6 mV	18.01 ft	150.00 ml/min
9/9/2024 2:02 PM	45:00	6.43 pH	21.77 °C	320.38 µS/cm	0.18 mg/L	11.10 NTU	0.4 mV	18.01 ft	150.00 ml/min
9/9/2024 2:07 PM	50:00	6.41 pH	21.19 °C	311.93 µS/cm	0.17 mg/L	9.54 NTU	2.8 mV	18.01 ft	150.00 ml/min
9/9/2024 2:12 PM	55:00	6.40 pH	20.78 °C	307.29 µS/cm	0.17 mg/L	9.76 NTU	-2.3 mV	18.01 ft	150.00 ml/min
9/9/2024 2:17 PM	01:00:00	6.38 pH	20.88 °C	304.87 µS/cm	0.17 mg/L	8.12 NTU	-2.5 mV	18.01 ft	150.00 ml/min

9/9/2024 2:22 PM	01:05:00	6.37 pH	21.23 °C	298.76 µS/cm	0.17 mg/L	7.42 NTU	4.6 mV	18.01 ft	150.00 ml/min
9/9/2024 2:27 PM	01:10:00	6.36 pH	21.06 °C	294.28 µS/cm	0.17 mg/L	5.87 NTU	-1.5 mV	18.01 ft	150.00 ml/min
9/9/2024 2:32 PM	01:15:00	6.36 pH	20.69 °C	291.70 µS/cm	0.15 mg/L	4.50 NTU	5.1 mV	18.01 ft	150.00 ml/min
9/9/2024 2:37 PM	01:20:00	6.35 pH	20.66 °C	290.25 µS/cm	0.16 mg/L	4.61 NTU	-0.2 mV	18.01 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-62	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 2:28:08 PM
Project: Plant McDonough (5)
Operator Name: Ever Guillen

Location Name: MCD-B-100 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.93 ft** **Total Depth: 47.93 ft** **Initial Depth to Water: 35.82 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Sample time 1515

Weather Conditions:
Hot, humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/5/2024 2:28 PM	00:00	5.41 pH	29.69 °C	529.01 µS/cm	3.03 mg/L	87.60 NTU	57.0 mV	35.82 ft	200.00 ml/min
9/5/2024 2:33 PM	05:00	5.20 pH	23.34 °C	636.69 µS/cm	1.13 mg/L	77.80 NTU	123.2 mV	35.85 ft	200.00 ml/min
9/5/2024 2:38 PM	10:00	5.10 pH	22.73 °C	688.49 µS/cm	1.10 mg/L	17.80 NTU	127.7 mV	35.85 ft	200.00 ml/min
9/5/2024 2:43 PM	15:00	5.10 pH	22.67 °C	704.06 µS/cm	1.01 mg/L	9.24 NTU	108.7 mV	35.85 ft	200.00 ml/min
9/5/2024 2:48 PM	20:00	5.13 pH	22.64 °C	721.36 µS/cm	0.73 mg/L	7.57 NTU	79.7 mV	35.85 ft	200.00 ml/min
9/5/2024 2:53 PM	25:00	5.17 pH	22.62 °C	744.29 µS/cm	0.93 mg/L	5.21 NTU	76.7 mV	35.85 ft	200.00 ml/min
9/5/2024 2:58 PM	30:00	5.18 pH	22.68 °C	759.52 µS/cm	0.88 mg/L	3.92 NTU	75.5 mV	35.85 ft	200.00 ml/min
9/5/2024 3:03 PM	35:00	5.19 pH	22.61 °C	753.96 µS/cm	1.13 mg/L	3.28 NTU	72.7 mV	35.85 ft	200.00 ml/min
9/5/2024 3:08 PM	40:00	5.20 pH	22.62 °C	774.27 µS/cm	0.96 mg/L	2.95 NTU	87.5 mV	35.85 ft	200.00 ml/min
9/5/2024 3:13 PM	45:00	5.20 pH	22.58 °C	778.26 µS/cm	0.95 mg/L	2.52 NTU	68.2 mV	35.85 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:58:38 AM
Project: Plant McDonough (12)
Operator Name: Daniel Howard

Location Name: MCD-DGWA-53 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26.89 ft** **Total Depth: 36.89 ft** **Initial Depth to Water: 19.6 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 31.9 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 6.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Sample time 1058.

Weather Conditions:
Partly cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/11/2024 9:58 AM	00:00	6.33 pH	20.07 °C	154.30 µS/cm	0.44 mg/L	18.90 NTU	82.0 mV	19.60 ft	150.00 ml/min
9/11/2024 10:03 AM	05:00	6.14 pH	19.65 °C	143.41 µS/cm	0.31 mg/L	15.60 NTU	107.3 mV	21.45 ft	150.00 ml/min
9/11/2024 10:08 AM	10:00	6.10 pH	19.46 °C	142.43 µS/cm	0.26 mg/L	13.80 NTU	107.8 mV	22.39 ft	150.00 ml/min
9/11/2024 10:13 AM	15:00	6.08 pH	19.50 °C	142.88 µS/cm	0.25 mg/L	12.70 NTU	104.7 mV	22.91 ft	150.00 ml/min
9/11/2024 10:18 AM	20:00	6.08 pH	19.52 °C	142.98 µS/cm	0.25 mg/L	10.80 NTU	102.0 mV	23.56 ft	150.00 ml/min
9/11/2024 10:23 AM	25:00	6.08 pH	19.60 °C	143.35 µS/cm	0.27 mg/L	9.84 NTU	99.8 mV	24.04 ft	150.00 ml/min
9/11/2024 10:28 AM	30:00	6.08 pH	19.63 °C	143.25 µS/cm	0.26 mg/L	8.82 NTU	98.0 mV	24.65 ft	150.00 ml/min
9/11/2024 10:33 AM	35:00	6.08 pH	19.55 °C	143.34 µS/cm	0.27 mg/L	7.86 NTU	96.8 mV	25.13 ft	150.00 ml/min
9/11/2024 10:38 AM	40:00	6.07 pH	19.96 °C	145.36 µS/cm	0.34 mg/L	6.99 NTU	95.6 mV	25.38 ft	100.00 ml/min
9/11/2024 10:43 AM	45:00	6.09 pH	20.27 °C	146.33 µS/cm	0.33 mg/L	6.30 NTU	88.0 mV	25.56 ft	100.00 ml/min
9/11/2024 10:48 AM	50:00	6.09 pH	20.38 °C	147.08 µS/cm	0.35 mg/L	5.74 NTU	87.4 mV	25.72 ft	100.00 ml/min
9/11/2024 10:53 AM	55:00	6.09 pH	20.66 °C	147.78 µS/cm	0.36 mg/L	5.09 NTU	96.0 mV	25.82 ft	100.00 ml/min
9/11/2024 10:58 AM	01:00:00	6.10 pH	21.01 °C	149.71 µS/cm	0.39 mg/L	4.85 NTU	92.0 mV	25.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWA-53	

Low-Flow Test Report:

Test Date / Time: 9/4/2024 11:00:25 AM
Project: Plant McDonough
Operator Name: Daniel Howard

Location Name: MCD-DGWA-70A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.54 ft** **Total Depth: 62.54 ft** **Initial Depth to Water: 43.26 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 57.5 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.42 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Sample time 1125.

Weather Conditions:
Partly Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/4/2024 11:00 AM	00:00	5.55 pH	20.17 °C	74.12 µS/cm	5.47 mg/L	0.31 NTU	161.7 mV	43.26 ft	200.00 ml/min
9/4/2024 11:05 AM	05:00	5.52 pH	19.94 °C	74.43 µS/cm	5.06 mg/L	0.16 NTU	137.2 mV	43.64 ft	200.00 ml/min
9/4/2024 11:10 AM	10:00	5.51 pH	19.83 °C	75.02 µS/cm	4.95 mg/L	0.14 NTU	135.1 mV	43.66 ft	200.00 ml/min
9/4/2024 11:15 AM	15:00	5.51 pH	19.99 °C	75.25 µS/cm	4.90 mg/L	0.27 NTU	133.8 mV	43.68 ft	200.00 ml/min
9/4/2024 11:20 AM	20:00	5.51 pH	19.99 °C	75.65 µS/cm	4.88 mg/L	0.12 NTU	132.8 mV	43.68 ft	200.00 ml/min
9/4/2024 11:25 AM	25:00	5.51 pH	19.90 °C	75.82 µS/cm	4.85 mg/L	0.14 NTU	131.9 mV	43.68 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWA-70A	

Low-Flow Test Report:

Test Date / Time: 9/4/2024 9:42:31 AM
Project: SCS Plant McDonough
Operator Name: DCB

Location Name: MCD-DGWA-71 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.71 ft** **Total Depth: 47.71 ft** **Initial Depth to Water: 33.85 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 42.71 m** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Weather Conditions:
Sunny 75

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 5	+/- 50	+/- 0.3	
9/4/2024 9:42 AM	00:00	6.56 pH	26.37 °C	89.00 µS/cm	7.04 mg/L	0.34 NTU	138.9 mV	33.85 ft	250.00 ml/min
9/4/2024 9:46 AM	04:00	5.93 pH	21.30 °C	89.56 µS/cm	3.20 mg/L	2.38 NTU	135.2 mV	34.14 ft	200.00 ml/min
9/4/2024 9:50 AM	08:00	5.85 pH	19.86 °C	90.32 µS/cm	2.35 mg/L	2.29 NTU	186.9 mV	34.17 ft	200.00 ml/min
9/4/2024 9:54 AM	12:00	5.85 pH	19.57 °C	78.21 µS/cm	2.22 mg/L	1.22 NTU	203.2 mV	34.17 ft	200.00 ml/min
9/4/2024 9:58 AM	16:00	5.86 pH	19.41 °C	89.50 µS/cm	2.22 mg/L	2.95 NTU	211.6 mV	34.17 ft	200.00 ml/min
9/4/2024 10:02 AM	20:00	5.85 pH	19.59 °C	90.23 µS/cm	2.14 mg/L	1.95 NTU	222.7 mV	34.17 ft	200.00 ml/min
9/4/2024 10:06 AM	24:00	5.85 pH	19.78 °C	89.73 µS/cm	2.10 mg/L	1.89 NTU	210.2 mV	34.17 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWA-71	

PLANT MCDONOUGH SURFACE WATER SAMPLES (AP-1)

Sample ID	Date	Time	Temp (°C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance – (mS/cm)	Coordinates
MCD-UT01_US	9/10/2024	1250	20.70	7.02	45.3	8.12	4.31	0.180	**33.825727, -84.482406**
MCD-UT02	9/10/2024	1240	20.60	6.89	42.9	7.96	2.31	0.188	**33.825039, -84.482618**
MCD-UT03	9/10/2024	1235	20.80	6.93	63.6	8.21	2.98	0.188	**33.824350, -84.482458**
MCD-UT01_DS	9/10/2024	1224	20.80	7.11	73.2	7.86	3.32	0.193	**33.822484, -84.482007**
MCD-CR-0.1	9/10/2024	1127	19.50	7.15	70.9	8.42	1.65	0.150	**33.824437, -84.473293**
MCD-CR+0.2	9/10/2024	1129	19.50	7.14	71.0	8.42	1.30	0.150	**33.819924, -84.478340**
MCD-CR+0.4	9/10/2024	1030	19.70	7.29	26.7	8.27	2.69	0.163	**33.818131, -84.479768**

PLANT MCDONOUGH SURFACE WATER SAMPLES (AP-2 3/4)

Sample ID	Date	Time	Temp (^{o}C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance – (mS/cm)	Coordinates
MCD-DW_DS	9/10/2024	1106	20.1	7.29	68.0	8.34	3.92	0.197	**33.821684, -84.476360**
MCD-DW_US	9/10/2024	1045	19.6	7.21	60.4	8.42	2.30	0.171	**33.823208, -84.474698**
MCD-CR-0.2	9/10/2024	1040	19.7	7.26	49.5	8.32	3.15	0.165	**33.824437, -84.473293**
MCD-CR-0.5	9/10/2024	1136	19.5	7.31	70.8	8.40	1.48	0.150	**33.827315, -84.469092**

Low-Flow Test Report:

Test Date / Time: 1/27/2025 4:33:42 PM
Project: McDonough Development
Operator Name: Dana Bloomfield

Location Name: MCD-B-129 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.3 ft** **Total Depth: 30.3 ft** **Initial Depth to Water: 14.61 ft**	**Pump Type: Reclaimer** **Tubing Type: LDPE** **Pump Intake From TOC: 25 m** **Estimated Total Volume Pumped: 2.752 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 0.05 gal/min** **Final Draw Down: 12.89 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
1/27/2025 4:33 PM	00:00	7.04 pH	18.10 °C	682.53 µS/cm	7.00 mg/L	2.27 NTU	67.3 mV	14.61 ft	0.10 gal/min
1/27/2025 4:43 PM	10:00	7.10 pH	19.17 °C	666.19 µS/cm	6.39 mg/L	2.40 NTU	73.9 mV	24.15 ft	0.10 gal/min
1/27/2025 4:53 PM	20:00	7.03 pH	19.05 °C	684.16 µS/cm	6.07 mg/L	3.61 NTU	64.6 mV	26.60 ft	0.10 gal/min
1/27/2025 4:55 PM	21:31	7.05 pH	19.05 °C	695.70 µS/cm	6.16 mg/L	3.69 NTU	72.9 mV	26.70 ft	0.05 gal/min
1/27/2025 4:58 PM	24:31	7.11 pH	19.01 °C	672.07 µS/cm	6.29 mg/L	2.52 NTU	63.9 mV	27.00 ft	0.05 gal/min
1/27/2025 5:01 PM	27:31	7.20 pH	18.82 °C	676.88 µS/cm	6.53 mg/L	2.45 NTU	62.1 mV	27.30 ft	0.05 gal/min
1/27/2025 5:04 PM	30:31	7.22 pH	18.25 °C	694.67 µS/cm	6.59 mg/L	3.45 NTU	61.3 mV	27.45 ft	0.05 gal/min
1/27/2025 5:07 PM	33:31	7.26 pH	18.58 °C	676.56 µS/cm	6.54 mg/L	3.43 NTU	60.5 mV	27.50 ft	0.05 gal/min

Samples

Sample ID:	Description:
MCD-B-129-TEMP	Sample time: 17:07

Low-Flow Test Report:

Test Date / Time: 12/11/2024 11:10:19 AM
Project: McDonough
Operator Name: Mark Mann

Location Name: INW-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.2 ft** **Total Depth: 23.2 ft** **Initial Depth to Water: 10.61 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
12/11/2024 11:10 AM	00:00	6.47 pH	16.06 °C	421.13 µS/cm	0.52 mg/L	43.70 NTU	-66.5 mV	10.61 ft	250.00 ml/min
12/11/2024 11:15 AM	05:00	6.44 pH	17.56 °C	408.78 µS/cm	0.31 mg/L	33.60 NTU	-74.4 mV	10.84 ft	250.00 ml/min
12/11/2024 11:20 AM	10:00	6.45 pH	17.85 °C	404.45 µS/cm	0.28 mg/L	12.20 NTU	-100.6 mV	10.86 ft	250.00 ml/min
12/11/2024 11:25 AM	15:00	6.45 pH	17.85 °C	401.20 µS/cm	0.25 mg/L	7.27 NTU	-102.0 mV	10.86 ft	250.00 ml/min
12/11/2024 11:30 AM	20:00	6.45 pH	17.99 °C	401.01 µS/cm	0.24 mg/L	5.65 NTU	-76.3 mV	10.88 ft	250.00 ml/min
12/11/2024 11:35 AM	25:00	6.45 pH	18.02 °C	397.86 µS/cm	0.23 mg/L	4.57 NTU	-101.2 mV	10.89 ft	250.00 ml/min
12/11/2024 11:40 AM	30:00	6.44 pH	17.87 °C	402.15 µS/cm	0.23 mg/L	4.44 NTU	-103.7 mV	10.90 ft	250.00 ml/min

Samples

Sample ID:	Description:
MCD-INW-01-TEMP-15	

Low-Flow Test Report:

Test Date / Time: 1/28/2025 10:53:26 AM
Project: McDonough Development
Operator Name: Dana Bloomfield

Location Name: MCD-INW-01A **Latitude: 33.82658878794899** **Longitude: -84.48265798892093** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.19 ft** **Total Depth: 23.19 ft** **Initial Depth to Water: 10.6 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.19 m** **Estimated Total Volume Pumped: 6450 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:

Weather Conditions:
Sunny 45

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 10	+/- 20	+/- 0.3	
1/28/2025 10:53 AM	00:00	6.42 pH	15.93 °C	224.15 µS/cm	3.90 mg/L	34.30 NTU	20.6 mV	10.60 ft	200.00 ml/min
1/28/2025 10:56 AM	03:00	6.34 pH	16.11 °C	224.09 µS/cm	0.46 mg/L	33.90 NTU	4.9 mV	10.97 ft	200.00 ml/min
1/28/2025 10:59 AM	06:00	6.38 pH	16.06 °C	230.31 µS/cm	0.22 mg/L	25.00 NTU	-5.2 mV	10.97 ft	250.00 ml/min
1/28/2025 11:02 AM	09:00	6.40 pH	15.81 °C	237.97 µS/cm	0.18 mg/L	14.60 NTU	-12.5 mV	10.97 ft	250.00 ml/min
1/28/2025 11:05 AM	12:00	6.42 pH	15.88 °C	239.51 µS/cm	0.16 mg/L	11.50 NTU	-17.2 mV	10.97 ft	250.00 ml/min
1/28/2025 11:08 AM	15:00	6.42 pH	16.03 °C	238.23 µS/cm	0.13 mg/L	7.94 NTU	-19.5 mV	10.97 ft	250.00 ml/min
1/28/2025 11:11 AM	18:00	6.43 pH	15.95 °C	241.93 µS/cm	0.12 mg/L	6.66 NTU	-22.5 mV	10.97 ft	250.00 ml/min
1/28/2025 11:14 AM	21:00	6.44 pH	16.25 °C	241.11 µS/cm	0.12 mg/L	5.60 NTU	-25.2 mV	10.97 ft	250.00 ml/min
1/28/2025 11:17 AM	24:00	6.45 pH	16.29 °C	241.69 µS/cm	0.11 mg/L	5.70 NTU	-27.2 mV	10.97 ft	250.00 ml/min
1/28/2025 11:20 AM	27:00	6.45 pH	15.96 °C	240.17 µS/cm	0.10 mg/L	4.57 NTU	-27.4 mV	10.97 ft	250.00 ml/min

Samples

Sample ID:	Description:

MCD-INW-01A-TEMP	Sample time: 1121

Created using VuSitu from In-Situ, Inc.

APPENDIX A

Instrument Calibration Records
September 2024

Site Name: Plant McDonough **Field Instrumentation Calibration Form**

Date: 9/9/24

Calibrated By: OCB

Field Conditions: Sunny, 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread	980712
Turbidity Meter	HACH	11888C00#9931

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24050593	11/24	AR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24004577	12/24	AR
pH (SU)	10.00	24004996	11/24	AR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24004953	12/24	AR

Calibration					
Time Start 0810		Time Finish 0830			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4494.4	22.97	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	23.07	± 0.1	GWMP
pH (SU)	7.00	7.03	23.22	± 0.1	GWMP
pH (SU)	10.00	10.03	23.29	± 0.1	GWMP
D.O. (%)	N/A	~~90.1~~ 100.3	~~22.84~~	21.08 ± 10%	NA
ORP (mV)	228.0	223.2	22.82	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	97		
	800	800		
	10	10.1		

Calibration Check					
Time Start 1610		Time Finish 1610			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4493.2	26.87	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.89	± 0.1	GWMP
pH (SU)	7.00	7.01	24.81	± 0.1	GWMP
pH (SU)	10.00	10.00	24.82	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	99		
	800	805		
	10	9.8		

Notes:

Site Name: SCS Plant McD

Field Instrumentation Calibration Form

Date: 9/4/24

Calibrated By: LND

Field Conditions: Sunny, Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	aquaread 400	851413
Turbidity Meter	HACH 2100 Q	14080C03444 7

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	
pH (SU)	4.00	24005593	12/2024	
pH (SU)	7.00	24008587	08/2025	
pH (SU)	10.00	24000085	12/2024	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24006903	12/2024	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	2597.5	~~25.8~~ 26.5	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	26.40	± 0.1	GWMP
pH (SU)	7.00	7.29	25.78	± 0.1	GWMP
pH (SU)	10.00	10.01	25.17	± 0.1	GWMP
D.O. (%)	N/A	8.01	28.17	± 10%	NA
ORP (mV)	228.0	233.9	24.98	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	21.0		
	100	103.0		
	800	770		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: McDonough

Field Instrumentation Calibration Form

Date: 9-4-24

Calibrated By: Ever Guillen

Field Conditions: Hot - Humid

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	YSI/EXO 2	23B7630
Turbidity Meter	HACH/2100Q	23060034

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	AIR
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24004517	12/24	AIR
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24004903	12/24	AIR

Calibration					
Time Start 1050		Time Finish 1130			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,410.4	23.56	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	23.43	± 0.1	GWMP
pH (SU)	7.00	7.03	23.41	± 0.1	GWMP
pH (SU)	10.00	9.89	23.34	± 0.1	GWMP
D.O. (%)	N/A	99.78	23.23	± 10%	NA
ORP (mV)	228.0	224.0	23.45	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.96	± 10% of standard	EPA 2023
	20	20.4		
	100	101		
	800	818		

Calibration Check					
Time Start 1400		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4651.5	26.41	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	26.41	± 0.1	GWMP
pH (SU)	7.00	6.96	27.14	± 0.1	GWMP
pH (SU)	10.00	9.93	27.85	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.3		
	100	100		
	800	807		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/4/24

Calibrated By: Daniel Howard

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter AquaTroll	AquaTroll	952637
Turbidity Meter	Hach 2100Q	22090D003337

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/25	AH Instruments
pH (SU)	4.00	24010943	5/25	↓
pH (SU)	7.00	24008558	6/25	↓
pH (SU)	10.00	24004996	6/25	↓
D.O. (%)	N/A	NA	—	—
ORP (mV)	228.0	24011792	6/25	AH Instruments

Calibration					
Time Start 0510		Time Finish 0540			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.87	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.45	± 0.1	GWMP
pH (SU)	7.00	7.00	23.41	± 0.1	GWMP
pH (SU)	10.00	10.00	23.05	± 0.1	GWMP
D.O. (%)	N/A	6.87	24.49	± 10%	NA
ORP (mV)	228.0	232.0	22.68	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	80.3		
	10	9.72		

Calibration Check					
Time Start 1230		Time Finish 1245			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4433	26.23	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.22	± 0.1	GWMP
pH (SU)	7.00	7.02	25.44	± 0.1	GWMP
pH (SU)	10.00	9.99	24.65	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	98.8		
	800	783		
	10	9.78		

Notes:

Site Name: MCDONOUGH

Field Instrumentation Calibration Form

Date: 09/04/24

Calibrated By: M. MANN

Field Conditions: SUNNY 64/84°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUATROLL	1087817
Turbidity Meter	HACH 2100Q	23060D000290

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010443	05/25	AIR
pH (SU)	4.00	" "	↓	↓
pH (SU)	7.00	24008587	06/25	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24011797	06/25	

Calibration

Time Start: 0830 Time Finish: 0850

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4494.4 9MA	~~22.68~~ 22.40	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00/4.00	23.15	± 0.1	GWMP
pH (SU)	7.00	7.00/7.00	22.72	± 0.1	GWMP
pH (SU)	10.00	10.01/10.00	22.80	± 0.1	GWMP
D.O. (%)	N/A	118.40	25.58	± 10%	NA
ORP (mV)	228.0	227.4	22.44	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.72	± 10% of standard	EPA 2023
	20	19.9		
	100	95.8		
	800	816		

Calibration Check

Time Start: 1425 Time Finish: 1435

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4470.0	32.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	32.72	± 0.1	GWMP
pH (SU)	7.00	6.91	31.53	± 0.1	GWMP
pH (SU)	10.00	9.91	~~31.53~~ 31.31	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.97	± 10% of standard	EPA 2023
	20	18.3		
	100	92.3		
	800	774		

Notes:

Site Name: Plant McDonough **Field Instrumentation Calibration Form**

Date: 9/5/24

Calibrated By: DCB

Field Conditions: Sunny, East

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		
Turbidity Meter		

Same as previous

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration

Time Start 0910 Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4446.6	23.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	23.88	± 0.1	GWMP
pH (SU)	7.00	7.02	23.33	± 0.1	GWMP
pH (SU)	10.00	10.01	23.39	± 0.1	GWMP
D.O. (%)	N/A	98.56	23.06	± 10%	NA
ORP (mV)	228.0	228.4	23.18	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	99.9		
	800	793		
	10	9.48		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4453.2	25.07	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	25.09	± 0.1	GWMP
pH (SU)	7.00	6.99	24.25	± 0.1	GWMP
pH (SU)	10.00	10.05	26.20	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	98.1		
	800	795		
	10	9.97		

Notes:

Site Name: SCS plant MCD

Field Instrumentation Calibration Form

Date: 9/5/24

Calibrated By: LMD

Field Conditions: Sunny clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatrol 400	851413
Turbidity Meter	HACH 2100Q	14080C 0 34447

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	
pH (SU)	4.00	24005593	12/24	
pH (SU)	7.00	24008587	06/25	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4586.8	20.82	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	21.15	± 0.1	GWMP
pH (SU)	7.00	7.07	21.55	± 0.1	GWMP
pH (SU)	10.00	10.08	21.50	± 0.1	GWMP
D.O. (%)	N/A	9.02	19.65	± 10%	NA
ORP (mV)	228.0	233.7	21.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.8	± 10% of standard	EPA 2023
	20	21.5		
	100	102		
	800	823		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4412.2	30.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	30.33	± 0.1	GWMP
pH (SU)	7.00	9.02	29.12	± 0.1	GWMP
pH (SU)	10.00	9.91	28.24	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.24	± 10% of standard	EPA 2023
	20	18.9		
	100	99.3		
	800	781.0		

Notes:

Site Name: McDONOUGH

Field Instrumentation Calibration Form

Date: 9-5-24

Calibrated By: EVER GUILLEN

Field Conditions: HOT - HUMID

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	INSITU/AT400	989630
Turbidity Meter	HACH/2100Q	23060034

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400 5593	12/24	AIR
pH (SU)	4.00	2400 5593	↓	↓
pH (SU)	7.00	2400 4519		
pH (SU)	10.00	2400 0085		
D.O. (%)	N/A	—		
ORP (mV)	228.0	2400 6903		

Calibration

Time Start 950 Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4562.0	23.92	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	23.81	± 0.1	GWMP
pH (SU)	7.00	6.93	23.88	± 0.1	GWMP
pH (SU)	10.00	9.97	23.98	± 0.1	GWMP
D.O. (%)	N/A	8.16	24.26	± 10%	NA
ORP (mV)	228.0	231.5	24.13	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.8		
	100	101		
	800	803		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4651.9	23.71	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	23.73	± 0.1	GWMP
pH (SU)	7.00	6.96	23.81	± 0.1	GWMP
pH (SU)	10.00	9.95	23.86	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.2		
	100	99.7		
	800	792		

Notes:

Site Name: Plant McDonough

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 9/5/24

Field Conditions: Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ	AquaTroll	952637
Turbidity Meter		Hach 2100Q	22090000337

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	6/25	Atl Instruments
pH (SU)	4.00	24010943	6/25	↓
pH (SU)	7.00	24000858	6/25	
pH (SU)	10.00	24004996	6/25	↓
D.O. (%)	N/A	NA	-	
ORP (mV)	228.0	24011792	6/25	Atl Instruments

Calibration					
Time Start 0520			Time Finish 0545		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.24	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	25.38	± 0.1	GWMP
pH (SU)	7.00	7.0	25.47	± 0.1	GWMP
pH (SU)	10.00	10.0	25.58	± 0.1	GWMP
D.O. (%)	N/A	6.90	24.42	± 10%	NA
ORP (mV)	228.0	228.2	25.69	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	798		
	10	9.60		

Calibration Check					
Time Start 1230 1225			Time Finish 1231		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4564	30.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	30.47	± 0.1	GWMP
pH (SU)	7.00	7.02	28.92	± 0.1	GWMP
pH (SU)	10.00	9.96	28.14	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.0	± 10% of standard	EPA 2023
	100	99.1		
	800	785		
	10	9.66		

Notes:

Site Name: PLANT McDONOUGH **Field Instrumentation Calibration Form** Date: 09/05/24

Calibrated By: M. MANN Field Conditions: CLOUDY 66°/89°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUATROLL	1082817
Turbidity Meter	HACH 2100Q	23060D000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	AJR
pH (SU)	4.00	"	"	
pH (SU)	7.00	24008587	06/25	
pH (SU)	10.00	24000885	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24011792	06/25	

Calibration					
Time Start 0400		Time Finish 0415			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4498.3	23.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06/4.00	23.36	± 0.1	GWMP
pH (SU)	7.00	6.90/7.00	23.83	± 0.1	GWMP
pH (SU)	10.00	9.91/10.00	24.24	± 0.1	GWMP
D.O. (%)	N/A	94.96	23.76	± 10%	NA
ORP (mV)	228.0	226.7	24.29	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.91	± 10% of standard	EPA 2023
	20	19.9		
	100	101		
	800	792		

Calibration Check					
Time Start 1245		Time Finish 1250			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4366.5	27.73	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	27.73	± 0.1	GWMP
pH (SU)	7.00	7.01	27.08	± 0.1	GWMP
pH (SU)	10.00	10.05	26.90	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.6		
	100	98.9		
	800	815		

Notes:

Site Name: SCS Plant MOD

Field Instrumentation Calibration Form

Date: 9/16/24

Calibrated By: LMD

Field Conditions: Sunny clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	aquatroll 400	857413
Turbidity Meter	HACH 2100Q	14080C03 4447

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	
pH (SU)	4.00	24005393	12/24	
pH (SU)	7.00	24008527	06/25	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24006903	12/24	

Calibration

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4343.5	21.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.32	± 0.1	GWMP
pH (SU)	7.00	7.02	21.55	± 0.1	GWMP
pH (SU)	10.00	10.04	21.64	± 0.1	GWMP
D.O. (%)	N/A	8.86	19.86	± 10%	NA
ORP (mV)	228.0	233	21.64	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.31	± 10% of standard	EPA 2023
	20	19.9		
	100	101		
	800	798		

Calibration Check

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: McDonough

Field Instrumentation Calibration Form

Date: 9-6-24

Calibrated By: Evel Guillen

Field Conditions: Hot-Dry-Cloudy

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	INSITU/AT400	989630
Turbidity Meter	HACH/2100Q	23060034

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400 5593	12-24	AIR
pH (SU)	4.00	2400 5593	↓	↓
pH (SU)	7.00	2400 4517		
pH (SU)	10.00	2400 0085		
D.O. (%)	N/A	–		
ORP (mV)	228.0	2400 6903		

Calibration					
Time Start 530		Time Finish 600			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4588.2	25.05	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	25.14	± 0.1	GWMP
pH (SU)	7.00	6.99	25.69	± 0.1	GWMP
pH (SU)	10.00	9.99	25.40	± 0.1	GWMP
D.O. (%)	N/A	8.29	23.43	± 10%	NA
ORP (mV)	228.0	225.0	25.44	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.5		
	100	98.9		
	800	794		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/6/24

Calibrated By: Daniel Howard

Field Conditions: Partly Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ	AquaTroll 952637
Turbidity Meter	Hach 2100Q	22090D04837

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/25	AtI Instruments
pH (SU)	4.00	24010943	5/25	↓
pH (SU)	7.00	24008558	6/25	↓
pH (SU)	10.00	24004996	6/25	↓
D.O. (%)	N/A	NA	—	—
ORP (mV)	228.0	24011792	6/25	AtI Instruments

Calibration					
Time Start: 0510		Time Finish: 0525			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.30	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.42	± 0.1	GWMP
pH (SU)	7.00	7.00	25.52	± 0.1	GWMP
pH (SU)	10.00	10.00	25.55	± 0.1	GWMP
D.O. (%)	N/A	6.88	24.54	± 10%	NA
ORP (mV)	228.0	228.4	25.51	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	99.8		
	800	803		
	10	9.49		

Calibration Check					
Time Start: 1100		Time Finish: 1115			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4408	26.77	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	26.97	± 0.1	GWMP
pH (SU)	7.00	7.02	25.53	± 0.1	GWMP
pH (SU)	10.00	9.98	25.19	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	99.3		
	800	787		
	10	10.1		

Notes:

Site Name: McDONOUGH

Field Instrumentation Calibration Form

Date: 09/06/24

Calibrated By: M. MANN

Field Conditions:

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUAPLUS	1082817
Turbidity Meter	HACH 2100Q	23060D000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration

Time Start 0835 Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	44389	23.02	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	23.07	± 0.1	GWMP
pH (SU)	7.00	7.01	23.62	± 0.1	GWMP
pH (SU)	10.00	9.99	24.11	± 0.1	GWMP
D.O. (%)	N/A	100.82	24.02	± 10%	NA
ORP (mV)	228.0	220.1	24.87	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	806		
	10	10.0		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McD

Field Instrumentation Calibration Form

Date: 9/9/24

Calibrated By: DCB

Field Conditions: Sunny 80°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		
Turbidity Meter		

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration

Time Start 0950 Time Finish 1005

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4613.4	22.37	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	22.35	± 0.1	GWMP
pH (SU)	7.00	6.98	23.00	± 0.1	GWMP
pH (SU)	10.00	9.98	23.60	± 0.1	GWMP
D.O. (%)	N/A	101.34	23.78	± 10%	NA
ORP (mV)	228.0	224.2	23.69	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	103		
	800	801		
	10	9.95		

Calibration Check

Time Start 1045 Time Finish 1100

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4562.2	23.56	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	23.57	± 0.1	GWMP
pH (SU)	7.00	7.05	23.05	± 0.1	GWMP
pH (SU)	10.00	9.99	23.42	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	102		
	800	800		
	10	9.95		

Notes:

Site Name: SCS Plant MED

Field Instrumentation Calibration Form

Date: 9/9/24

Calibrated By: LND

Field Conditions: Sunny clear.

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	851413
Turbidity Meter	HACH 2100Q	14080C034447

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	
pH (SU)	4.00	24005593	12/24	
pH (SU)	7.00	24008587	9/6/25	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24056903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4389.2	18.88	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	19.19	± 0.1	GWMP
pH (SU)	7.00	7.00	19.32	± 0.1	GWMP
pH (SU)	10.00	10.07	19.37	± 0.1	GWMP
D.O. (%)	N/A	9.47	18.16	± 10%	NA
ORP (mV)	228.0	237.9	19.80	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	~~9.64~~ 9.51	± 10% of standard	EPA 2023
	20	20.3		
	100	101		
	800	799		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4752.2	32.98	± 10% of standard	EPA 2023
pH (SU)	4.00	4.13	33.33	± 0.1	GWMP
pH (SU)	7.00	7.05	32.97	± 0.1	GWMP
pH (SU)	10.00	9.96	32.83	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.28	± 10% of standard	EPA 2023
	20	19.2		
	100	96.8		
	800	801		

Notes:

Site Name: MC DONOUGH

Field Instrumentation Calibration Form

Date: 9-9-24

Calibrated By: EVER GUILLEN

Field Conditions: HOT - DRY - CLOUDY

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	INSITU/AT400	989630
Turbidity Meter	HACH/2100Q	23060034

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	Z400 5593	12-24	AIR
pH (SU)	4.00	Z400 5593		
pH (SU)	7.00	Z400 4517		
pH (SU)	10.00	Z400 0085		
D.O. (%)	N/A	—		
ORP (mV)	228.0	Z400 6903		

Calibration					
Time Start 0800		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4601.6	20.16	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	20.39	± 0.1	GWMP
pH (SU)	7.00	7.02	20.72	± 0.1	GWMP
pH (SU)	10.00	10.04	20.77	± 0.1	GWMP
D.O. (%)	N/A	9.03	18.79	± 10%	NA
ORP (mV)	228.0			± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.96	± 10% of standard	EPA 2023
	20	19.7		
	100	102		
	800	807		

Calibration Check					
Time Start 1330		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4653.7	22.91	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.91	± 0.1	GWMP
pH (SU)	7.00	6.97	22.78	± 0.1	GWMP
pH (SU)	10.00	9.96	22.83	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.2		
	100	101		
	800	811		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/9/24

Calibrated By: Daniel Howard

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll	952637
Turbidity Meter	Hach 2100Q	22090C008337

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/25	Atl Instruments
pH (SU)	4.00	24010943	5/25	↓
pH (SU)	7.00	24008558	6/25	
pH (SU)	10.00	24004996	6/25	
D.O. (%)	N/A	NA	-	-
ORP (mV)	228.0	24011792	6/25	Atl Instruments

Calibration					
Time Start 0510		Time Finish 0540			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.69	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	23.75	± 0.1	GWMP
pH (SU)	7.00	7.0	23.65	± 0.1	GWMP
pH (SU)	10.00	10.0	23.74	± 0.1	GWMP
D.O. (%)	N/A	6.95	23.79	± 10%	NA
ORP (mV)	228.0	230.7	23.75	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	99.7		
	800	798		
	10	9.56		

Calibration Check					
Time Start 1221		Time Finish 1235			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4352	29.19	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	29.19	± 0.1	GWMP
pH (SU)	7.00	7.05	27.16	± 0.1	GWMP
pH (SU)	10.00	9.97	27.30	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	99.6		
	800	789		
	10	9.96		

Notes:

Site Name: McDONOUGH

Field Instrumentation Calibration Form

Date: 9/9/24

Calibrated By: M. MANN

Field Conditions: _____

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUAROLL	1082817
Turbidity Meter	HACH 2100Q	23060D000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	AIR
pH (SU)	4.00	〃	〃	〃
pH (SU)	7.00	24008587	06/25	〃
pH (SU)	10.00	24000084	12/24	〃
D.O. (%)	N/A	—	—	〃
ORP (mV)	228.0	24011792	06/25	〃

Calibration					
Time Start	0820	Time Finish	0840		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4404.1	23.02	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	23.70	± 0.1	GWMP
pH (SU)	7.00	7.04	23.77	± 0.1	GWMP
pH (SU)	10.00	10.01	23.63	± 0.1	GWMP
D.O. (%)	N/A	99.55	22.47	± 10%	NA
ORP (mV)	228.0	226.5	23.83	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	99.3		
	800	796		
	10	9.72		

Calibration Check					
Time Start	1530	Time Finish	1540		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4393.2	28.39	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	28.29	± 0.1	GWMP
pH (SU)	7.00	7.08	29.17	± 0.1	GWMP
pH (SU)	10.00	10.06	30.55	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	19.8		
	100	99.5		
	800	784		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/10

Calibrated By: DCB

Field Conditions: Sunny 80s F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start 0915		Time Finish 0930			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4403.0	20.59	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	20.59	± 0.1	GWMP
pH (SU)	7.00	6.99	21.36	± 0.1	GWMP
pH (SU)	10.00	9.94	21.77	± 0.1	GWMP
D.O. (%)	N/A	98.73	21.74	± 10%	NA
ORP (mV)	228.0	230.4	21.62	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	107		
	800	815		
	10	10.0		

Calibration Check					
Time Start 1600		Time Finish 1615			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4496.5	23.52	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.54	± 0.1	GWMP
pH (SU)	7.00	7.00	22.05	± 0.1	GWMP
pH (SU)	10.00	10.01	23.10	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.7	± 10% of standard	EPA 2023
	100	102		
	800	805		
	10	9.98		

Notes:

Site Name: SCS plant ~~SCS~~ MCD

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: LNP

Field Conditions: Sunny clear.

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	aquaread 400	851413
Turbidity Meter	HACH 2100Q	14080C03 4447

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24002593	12/24	
pH (SU)	4.00	24005593	12/24	
pH (SU)	7.00	24008587	06/25	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4515.5	18.78	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	19.41	± 0.1	GWMP
pH (SU)	7.00	7.04	20.04	± 0.1	GWMP
pH (SU)	10.00	10.07	20.06	± 0.1	GWMP
D.O. (%)	N/A	9.34	17.24	± 10%	NA
ORP (mV)	228.0	232.4	20.91	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	~~19.4~~ 10.4	± 10% of standard	EPA 2023
	20	19.1		
	100	98		
	800	799		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4487.2	32.15	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	32.06	± 0.1	GWMP
pH (SU)	7.00	6.96	30.78	± 0.1	GWMP
pH (SU)	10.00	9.86	29.97	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.38	20.6 ± 10% of standard	EPA 2023
	20	~~20.6~~		
	100	94.2		
	800	785		

Notes:

Field Instrumentation Calibration Form

Site Name: MC DONOUGH

Date: 9-10-24

Calibrated By: EVER GUILLEN

Field Conditions: HOT-HUMID-CLOUDY

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IPSITU/AT400	989630
Turbidity Meter	HACH/2100Q	23060034

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400 5593	12/24	AIR
pH (SU)	4.00	2400 5593	↓	↓
pH (SU)	7.00	2400 4517		
pH (SU)	10.00	2400 0085		
D.O. (%)	N/A	—		
ORP (mV)	228.0	2400 6903		

Calibration

Time Start 830 Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4995.3	21.59	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.73	± 0.1	GWMP
pH (SU)	7.00	6.89	22.90	± 0.1	GWMP
pH (SU)	10.00	10.11	22.68	± 0.1	GWMP
D.O. (%)	N/A	8.86	20.57	± 10%	NA
ORP (mV)	228.0	222.4	22.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.90	± 10% of standard	EPA 2023
	20	20.9		
	100	100		
	800	794		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4479.1	22.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.17	± 0.1	GWMP
pH (SU)	7.00	6.93	22.34	± 0.1	GWMP
pH (SU)	10.00	9.96	21.98	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	21.0		
	100	99		
	800	806		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: Daniel Howard

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter Inst.n	AquaTroll	952637
Turbidity Meter	Hach2100Q	22090D000337

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/25	AtI Instruments
pH (SU)	4.00	24010943	5/25	↓
pH (SU)	7.00	24008558	6/25	↓
pH (SU)	10.00	24004996	6/25	↓
D.O. (%)	N/A	NA	NA	—
ORP (mV)	228.0	24011792	6/25	AtI Instruments

Calibration					
Time Start 0510		Time Finish 0545			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.56	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.63	± 0.1	GWMP
pH (SU)	7.00	7.06	25.02	± 0.1	GWMP
pH (SU)	10.00	10.10	24.85	± 0.1	GWMP
D.O. (%)	N/A	6.97	23.88	± 10%	NA
ORP (mV)	228.0	229.1	25.02	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	100		
	800	807		
	10	9.57		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4462	26.13	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.15	± 0.1	GWMP
pH (SU)	7.00	7.00	26.11	± 0.1	GWMP
pH (SU)	10.00	9.99	26.09	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	788		
	10	9.76		

Notes:

Site Name: McDONOUGH

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: M. MANN

Field Conditions: 70°F SUNNY

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUATROLL	1082817
Turbidity Meter	HACH 2100Q	22[illegible]

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	AIR
pH (SU)	4.00	"	↓	↓
pH (SU)	7.00	24008587	06/25	
pH (SU)	10.00	24000065	12/24	
D.O. (%)	N/A	-	-	
ORP (mV)	228.0	24011742	06/25	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4363.8	21.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.91	± 0.1	GWMP
pH (SU)	7.00	7.32	22.43	± 0.1	GWMP
pH (SU)	10.00	10.03	22.71	± 0.1	GWMP
D.O. (%)	N/A	100.6	23.00	± 10%	NA
ORP (mV)	228.0	224.0	22.64	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.94	± 10% of standard	EPA 2023
	20	19.7		
	100	100		
	800	803		

Calibration Check					
Time Start	1405	Time Finish	1417		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4470.1	33.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	32.93	± 0.1	GWMP
pH (SU)	7.00	7.10	33.96	± 0.1	GWMP
pH (SU)	10.00	10.00	37.33	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.3		
	100	105		
	800	810		

Notes:

Site Name: Plant McD

Field Instrumentation Calibration Form

Date: 9/4/24

Calibrated By: DLB

Field Conditions: Cloudy 78

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start 0915		Time Finish 0935			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4522.9	22.08	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.08	± 0.1	GWMP
pH (SU)	7.00	6.98	22.66	± 0.1	GWMP
pH (SU)	10.00	10.08	23.02	± 0.1	GWMP
D.O. (%)	N/A	~~98.0~~ 100.27	~~23.95~~ 22.13	± 10%	NA
ORP (mV)	228.0	224.0	23.19	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	23.1	± 10% of standard	EPA 2023
	100	103		
	800	813		
	10	9.25		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Done @ 12pm, no cal check

Site Name: SCS Plant MCD

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: LND

Field Conditions: cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	aquaprobe 400	851413
Turbidity Meter	HACH 2100 Q	14080C0 34447

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	
pH (SU)	4.00	24005593	12/24	
pH (SU)	7.00	24008587	06/25	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4378.0	20.35	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	20.67	± 0.1	GWMP
pH (SU)	7.00	6.97	20.61	± 0.1	GWMP
pH (SU)	10.00	10.01	20.48	± 0.1	GWMP
D.O. (%)	N/A	8.77	20.13	± 10%	NA
ORP (mV)	228.0			± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.66	± 10% of standard	EPA 2023
	20	21.0		
	100	104		
	800	813		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: EVER GLADES

Field Instrumentation Calibration Form

Date: 9-11-24

Calibrated By:

Field Conditions: WARM - HUMID - CLOU

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	INSITU / PT400	989630
Turbidity Meter	HACH / 2100Q	23060034

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400 5593	12/24	AIR
pH (SU)	4.00	2400 5593		
pH (SU)	7.00	2400 4517		
pH (SU)	10.00	2400 0085		
D.O. (%)	N/A	~~2400~~		
ORP (mV)	228.0	2400 6903		

Calibration					
Time Start 845		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4467.8	20.68	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.76	± 0.1	GWMP
pH (SU)	7.00	7.01	22.91	± 0.1	GWMP
pH (SU)	10.00	9.95	22.98	± 0.1	GWMP
D.O. (%)	N/A	8.87	20.66	± 10%	NA
ORP (mV)	228.0	230.08	22.87	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.6		
	100	99.0		
	800	810		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: Daniel Howard

Field Conditions: Partly Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll	952637
Turbidity Meter	Hach 2100Q	22090[illegible]0337

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/25	AtI Instruments
pH (SU)	4.00	24010943	5/25	↓
pH (SU)	7.00	24010858	6/25	↓
pH (SU)	10.00	24010996	6/25	↓
D.O. (%)	N/A	NA	NA	=
ORP (mV)	228.0	24011792	6/25	AtI Instruments

Calibration					
Time Start 0520		Time Finish 0535			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490	25.30	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.87	± 0.1	GWMP
pH (SU)	7.00	7.00	25.98	± 0.1	GWMP
pH (SU)	10.00	10.08	25.88	± 0.1	GWMP
D.O. (%)	N/A	6.72	25.51	± 10%	NA
ORP (mV)	228.0	228.1	25.78	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	99.9		
	800	798		
	10	9.76		

Calibration Check					
Time Start 1150		Time Finish 1210			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,516	25.62	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.70	± 0.1	GWMP
pH (SU)	7.00	7.01	25.49	± 0.1	GWMP
pH (SU)	10.00	9.98	25.32	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.0	± 10% of standard	EPA 2023
	100	99.4		
	800	795		
	10	10.1		

Notes:

Site Name: McDONOUGH

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: M. MANN

Field Conditions:

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUAROLL	1082817
Turbidity Meter	HACH 2100Q	22060000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	AIR
pH (SU)	4.00	" "	↓	↓
pH (SU)	7.00	24008587	06/25	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24011792	06/25	↓

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4444.2	22.17	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	22.80	± 0.1	GWMP
pH (SU)	10.00	9.98	23.05	± 0.1	GWMP
D.O. (%)	N/A	98.68	21.77	± 10%	NA
ORP (mV)	228.0	226.0	22.40	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.76	± 10% of standard	EPA 2023
	20	20.4		
	100	100		
	800	796		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: McDONOUGH

Field Instrumentation Calibration Form

Date: 12/11/24

Calibrated By: M. MANN

Field Conditions: 42°F WINDY

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUATROLL 200	1080302
Turbidity Meter	HACH 2100Q	24090D000397

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	ADI
pH (SU)	4.00	24010943	05/2025	
pH (SU)	7.00	24009597	06/2025	
pH (SU)	10.00	24004996	06/2025	
D.O. (%)	N/A			
ORP (mV)	228.0	24011792	06/2025	

Calibration					
Time Start 1015		Time Finish 1030			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4364.0	14.49	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	14.30	± 0.1	GWMP
pH (SU)	7.00	7.01	14.40	± 0.1	GWMP
pH (SU)	10.00	10.09	13.94	± 0.1	GWMP
D.O. (%)	N/A	97.06	11.09	± 10%	NA
ORP (mV)	228.0	232.4	13.82	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.4	± 10% of standard	EPA 2023
	20	21.6		
	100	108		
	800	814		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes

APPENDIX B

Laboratory Analytical Data, Data Validation Summary and Laboratory Accreditation

APPENDIX B

Laboratory Analytical Data
September 2024

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 27, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2024 and September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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Huntersville, NC 28078
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CERTIFICATIONS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92751700001	**MCD-DGWC-21**	Water	09/04/24 15:43	09/05/24 10:00
92751700002	**MCD-AP234-FB-2**	Water	09/04/24 15:43	09/05/24 10:00
92751700003	**MCD-DGWC-5**	Water	09/06/24 09:54	09/06/24 15:55
92751700004	**MCD-DGWC-4**	Water	09/06/24 09:37	09/06/24 15:55
92751700005	**MCD-AP234-FB-3**	Water	09/06/24 10:15	09/06/24 15:55
92751700006	**MCD-AP234-EB-3**	Water	09/06/24 10:20	09/06/24 15:55
92751700007	**MCD-DGWC-12**	Water	09/05/24 14:58	09/06/24 15:55
92751700008	**MCD-DGWC-13**	Water	09/05/24 11:48	09/06/24 15:55
92751700009	**MCD-DGWC-20**	Water	09/05/24 13:12	09/06/24 15:55
92751700010	**MCD-DGWC-23**	Water	09/05/24 12:05	09/06/24 15:55
92751700011	**MCD-DGWC-42**	Water	09/05/24 15:53	09/06/24 15:55
92751700012	**MCD-DGWC-47**	Water	09/05/24 15:21	09/06/24 15:55
92751700013	**MCD-AP234-FD-3**	Water	09/05/24 00:00	09/06/24 15:55
92751700014	**MCD-AP234-FD-2**	Water	09/05/24 00:00	09/06/24 15:55
92751700015	**MCD-AP234-EB-2**	Water	09/05/24 13:00	09/06/24 15:55
92751700016	**MCD-DGWC-15**	Water	09/05/24 10:03	09/06/24 15:55
92751700017	**MCD-DGWC-19**	Water	09/05/24 10:15	09/06/24 15:55
92751700018	**MCD-DGWC-2**	Water	09/09/24 16:06	09/10/24 08:50
92751700019	**MCD-DGWC-8**	Water	09/09/24 12:03	09/10/24 08:50
92751700020	**MCD-DGWC-11**	Water	09/09/24 15:10	09/10/24 08:50
92751700021	**MCD-DGWC-22**	Water	09/09/24 09:52	09/10/24 08:50
92751700022	**MCD-DGWC-14**	Water	09/10/24 10:09	09/11/24 15:55
92751700023	**MCD-DGWC-17**	Water	09/10/24 12:48	09/11/24 15:55
92751700024	**MCD-DGWC-48**	Water	09/10/24 13:07	09/11/24 15:55
92751700025	**MCD-DGWC-10**	Water	09/11/24 10:35	09/11/24 15:55
92751700026	**MCD-DGWC-9**	Water	09/11/24 10:11	09/11/24 15:55

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92751700001	**MCD-DGWC-21**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751700002	**MCD-AP234-FB-2**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751700003	**MCD-DGWC-5**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700004	**MCD-DGWC-4**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700005	**MCD-AP234-FB-3**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700006	**MCD-AP234-EB-3**	EPA 6010D	MJS2	5
		EPA 6020B	CW1, MT1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700007	**MCD-DGWC-12**	EPA 6010D	MJS2	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700008	**MCD-DGWC-13**	EPA 6010D	MJS2	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700009	**MCD-DGWC-20**	EPA 6010D	MJS2	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700010	**MCD-DGWC-23**	EPA 6010D	MJS2	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700011	**MCD-DGWC-42**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700012	**MCD-DGWC-47**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700013	**MCD-AP234-FD-3**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700014	**MCD-AP234-FD-2**	EPA 6010D	MJS2	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700015	**MCD-AP234-EB-2**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700016	**MCD-DGWC-15**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700017	**MCD-DGWC-19**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700018	**MCD-DGWC-2**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700019	**MCD-DGWC-8**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700020	**MCD-DGWC-11**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700021	**MCD-DGWC-22**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700022	**MCD-DGWC-14**	EPA 6010D	AJM	5

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700023	**MCD-DGWC-17**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700024	**MCD-DGWC-48**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700025	**MCD-DGWC-10**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751700026	**MCD-DGWC-9**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-21 **Lab ID: 92751700001** Collected: 09/04/24 15:43 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 21:32	7439-89-6	
Potassium	**6.8**	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 21:32	7440-09-7	
Sodium	**23.8**	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 21:32	7440-23-5	
Calcium	**81.9**	mg/L	1.0	0.12	1	09/06/24 13:14	09/10/24 21:32	7440-70-2	
Magnesium	**16.4**	mg/L	0.050	0.012	1	09/06/24 13:14	09/10/24 21:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:30	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:30	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:30	7440-41-7	
Boron	**5.7**	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:30	7440-42-8	
Cadmium	**0.00077**	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:30	7440-47-3	
Cobalt	**0.0087**	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:30	7440-48-4	
Lead	**0.0025**	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:30	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**537**	mg/L	25.0	25.0	1		09/10/24 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**33.1**	mg/L	5.0	5.0	1		09/10/24 21:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 21:09		
Alkalinity, Total as CaCO3	**33.1**	mg/L	5.0	5.0	1		09/10/24 21:09		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.0**	mg/L	1.0	0.60	1		09/08/24 00:14	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/08/24 00:14	16984-48-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-21 **Lab ID: 92751700001** Collected: 09/04/24 15:43 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**253**	mg/L	6.0	3.0	6		09/08/24 11:48	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FB-2 **Lab ID: 92751700002** Collected: 09/04/24 15:43 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 21:41	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 21:41	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 21:41	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/06/24 13:14	09/10/24 21:41	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/06/24 13:14	09/10/24 21:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:38	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:38	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/10/24 12:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 21:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 21:15		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/10/24 21:15		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/08/24 01:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/24 01:33	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FB-2 **Lab ID: 92751700002** Collected: 09/04/24 15:43 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/08/24 01:33	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-5 **Lab ID: 92751700003** Collected: 09/06/24 09:54 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:15	7439-89-6	
Potassium	**4.4**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:15	7440-09-7	
Sodium	**24.4**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:15	7440-23-5	
Calcium	**126**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:15	7440-70-2	
Magnesium	**22.1**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:15	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:58	7440-36-0	
Arsenic	**0.0010J**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:58	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:58	7440-39-3	
Beryllium	**0.0071**	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:58	7440-41-7	
Boron	**2.7**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:58	7440-42-8	
Cadmium	**0.0010**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:58	7440-47-3	
Cobalt	**0.016**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:58	7440-48-4	
Lead	**0.00023J**	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:58	7439-92-1	
Lithium	**0.0072J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:58	7439-98-7	
Selenium	**0.0059**	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00025**	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**977**	mg/L	25.0	25.0	1		09/11/24 14:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:07		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 21:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:26	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.4**	mg/L	1.0	0.60	1		09/11/24 16:19	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.050	1		09/11/24 16:19	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-5 **Lab ID: 92751700003** Collected: 09/06/24 09:54 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**558**	mg/L	11.0	5.5	11		09/12/24 02:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-4 **Lab ID: 92751700004** Collected: 09/06/24 09:37 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:20	7439-89-6	
Potassium	**9.5**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:20	7440-09-7	
Sodium	**51.5**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:20	7440-23-5	
Calcium	**219**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:20	7440-70-2	
Magnesium	**29.1**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 18:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 18:02	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 18:02	7440-39-3	
Beryllium	**0.00034J**	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 18:02	7440-41-7	
Boron	**3.7**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 18:02	7440-42-8	
Cadmium	**0.00082**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 18:02	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 18:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 18:02	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 18:02	7439-93-2	
Molybdenum	**0.0029J**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 18:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 18:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 18:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1290**	mg/L	25.0	25.0	1		09/11/24 14:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		09/11/24 21:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:20		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		09/11/24 21:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:26	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.5**	mg/L	1.0	0.60	1		09/11/24 16:35	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		09/11/24 16:35	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-4 **Lab ID: 92751700004** Collected: 09/06/24 09:37 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**708**	mg/L	15.0	7.5	15		09/12/24 02:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FB-3 **Lab ID: 92751700005** Collected: 09/06/24 10:15 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:25	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:25	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:25	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:25	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 18:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 18:05	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 18:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 18:05	7440-41-7	
Boron	**0.019J**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 18:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 18:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 18:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 18:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 18:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 18:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 18:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 18:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 18:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/11/24 14:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:30		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 21:30		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/11/24 11:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/11/24 11:25	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FB-3 **Lab ID: 92751700005** Collected: 09/06/24 10:15 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/11/24 11:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-EB-3 **Lab ID: 92751700006** Collected: 09/06/24 10:20 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:30	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:30	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:30	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:30	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:30	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 18:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/16/24 13:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 18:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 18:17	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 18:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 18:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 18:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 18:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 18:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 18:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 18:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 18:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 18:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**148**	mg/L	25.0	25.0	1		09/11/24 14:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:34		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 21:34		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/11/24 11:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/11/24 11:41	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-EB-3 **Lab ID: 92751700006** Collected: 09/06/24 10:20 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/11/24 11:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-12 **Lab ID: 92751700007** Collected: 09/05/24 14:58 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.4**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:35	7439-89-6	
Potassium	**6.0**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:35	7440-09-7	
Sodium	**10.9**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:35	7440-23-5	
Calcium	**32.9**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:35	7440-70-2	
Magnesium	**15.3**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/16/24 13:16	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 18:20	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 18:20	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 18:20	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 18:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 18:20	7440-47-3	
Cobalt	**0.022**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 18:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 18:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 18:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 18:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 18:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**331**	mg/L	25.0	25.0	1		09/11/24 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**35.1**	mg/L	5.0	5.0	1		09/11/24 19:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 19:54		
Alkalinity, Total as CaCO3	**35.1**	mg/L	5.0	5.0	1		09/11/24 19:54		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.9**	mg/L	1.0	0.60	1		09/11/24 16:50	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		09/11/24 16:50	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-12 **Lab ID: 92751700007** Collected: 09/05/24 14:58 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**148**	mg/L	3.0	1.5	3		09/12/24 03:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-13 **Lab ID: 92751700008** Collected: 09/05/24 11:48 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:40	7439-89-6	
Potassium	**4.3**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:40	7440-09-7	
Sodium	**16.6**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:40	7440-23-5	
Calcium	**28.9**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:40	7440-70-2	
Magnesium	**6.4**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/16/24 13:20	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 18:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 18:24	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 18:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 18:24	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 18:24	7439-93-2	
Molybdenum	**0.0074J**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 18:24	7439-98-7	
Selenium	**0.0023J**	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**211**	mg/L	25.0	25.0	1		09/11/24 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**22.7**	mg/L	5.0	5.0	1		09/11/24 20:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:11		
Alkalinity, Total as CaCO3	**22.7**	mg/L	5.0	5.0	1		09/11/24 20:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.5**	mg/L	1.0	0.60	1		09/11/24 17:06	16887-00-6	
Fluoride	**0.079J**	mg/L	0.10	0.050	1		09/11/24 17:06	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-13 **Lab ID: 92751700008** Collected: 09/05/24 11:48 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**94.8**	mg/L	2.0	1.0	2		09/12/24 03:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-20 **Lab ID: 92751700009** Collected: 09/05/24 13:12 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.2**	mg/L	0.20	0.13	5	09/12/24 13:03	09/14/24 17:48	7439-89-6	
Potassium	**10**	mg/L	2.5	0.76	5	09/12/24 13:03	09/14/24 17:48	7440-09-7	
Sodium	**13.0**	mg/L	5.0	2.9	5	09/12/24 13:03	09/14/24 17:48	7440-23-5	
Calcium	**110**	mg/L	5.0	0.61	5	09/12/24 13:03	09/14/24 17:48	7440-70-2	
Magnesium	**17.3**	mg/L	0.25	0.059	5	09/12/24 13:03	09/14/24 17:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 18:28	7440-36-0	
Arsenic	**0.055**	mg/L	0.025	0.0042	5	09/11/24 13:55	09/16/24 13:24	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 18:28	7440-39-3	
Beryllium	**0.010**	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 18:28	7440-41-7	
Boron	**2.6**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 18:28	7440-42-8	
Cadmium	**0.0045**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 18:28	7440-43-9	
Chromium	**0.0023J**	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 18:28	7440-47-3	
Cobalt	**1.9**	mg/L	0.025	0.0016	5	09/11/24 13:55	09/16/24 13:24	7440-48-4	
Lead	**0.0017J**	mg/L	0.010	0.0016	10	09/11/24 13:55	09/16/24 14:27	7439-92-1	D3
Lithium	**0.015J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 18:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 18:28	7439-98-7	
Selenium	**0.090**	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 18:28	7782-49-2	
Thallium	ND	mg/L	0.010	0.0038	10	09/11/24 13:55	09/16/24 14:27	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1220**	mg/L	25.0	25.0	1		09/11/24 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:25		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 20:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**26.2**	mg/L	1.0	0.60	1		09/11/24 17:21	16887-00-6	
Fluoride	**1.8**	mg/L	0.10	0.050	1		09/11/24 17:21	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-20 **Lab ID: 92751700009** Collected: 09/05/24 13:12 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**698**	mg/L	15.0	7.5	15		09/12/24 03:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-23 **Lab ID: 92751700010** Collected: 09/05/24 12:05 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:50	7439-89-6	
Potassium	**8.5**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:50	7440-09-7	
Sodium	**26.6**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:50	7440-23-5	
Calcium	**105**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:50	7440-70-2	
Magnesium	**23.3**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:50	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/16/24 13:28	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 18:31	7440-39-3	
Beryllium	**0.00032J**	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 18:31	7440-41-7	
Boron	**5.1**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 18:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 18:31	7440-47-3	
Cobalt	**0.00088J**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 18:31	7439-92-1	
Lithium	**0.0048J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 18:31	7439-93-2	
Molybdenum	**0.0097J**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 18:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**632**	mg/L	25.0	25.0	1		09/11/24 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**100**	mg/L	5.0	5.0	1		09/11/24 20:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:28		
Alkalinity, Total as CaCO3	**100**	mg/L	5.0	5.0	1		09/11/24 20:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.7**	mg/L	1.0	0.60	1		09/11/24 17:36	16887-00-6	
Fluoride	**0.089J**	mg/L	0.10	0.050	1		09/11/24 17:36	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-23 **Lab ID: 92751700010** Collected: 09/05/24 12:05 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**303**	mg/L	6.0	3.0	6		09/12/24 05:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-42 **Lab ID: 92751700011** Collected: 09/05/24 15:53 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.042**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 18:08	7439-89-6	
Potassium	**5.7**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 18:08	7440-09-7	
Sodium	**75.7**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 18:08	7440-23-5	M1
Calcium	**33.0**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 18:08	7440-70-2	M1
Magnesium	**20.4**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 18:08	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:00	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:00	7440-39-3	
Beryllium	**0.0027**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:00	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:00	7440-42-8	
Cadmium	**0.00098**	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:00	7440-47-3	
Cobalt	**0.010**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:00	7440-48-4	
Lead	**0.00021J**	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:00	7439-92-1	
Lithium	**0.0099J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**522**	mg/L	25.0	25.0	1		09/11/24 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.4**	mg/L	5.0	5.0	1		09/11/24 20:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:37		
Alkalinity, Total as CaCO3	**6.4**	mg/L	5.0	5.0	1		09/11/24 20:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		09/11/24 17:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/11/24 17:52	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-42 **Lab ID: 92751700011** Collected: 09/05/24 15:53 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**356**	mg/L	6.0	3.0	6		09/12/24 05:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-47 **Lab ID: 92751700012** Collected: 09/05/24 15:21 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.1**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 18:28	7439-89-6	
Potassium	**5.4**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 18:28	7440-09-7	
Sodium	**7.9**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 18:28	7440-23-5	
Calcium	**23.8**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 18:28	7440-70-2	
Magnesium	**6.8**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 18:28	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0014J**	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:15	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:15	7440-39-3	
Beryllium	**0.0075**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:15	7440-41-7	
Boron	**0.15**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:15	7440-42-8	
Cadmium	**0.0031**	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:15	7440-47-3	
Cobalt	**0.22**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:15	7440-48-4	
Lead	**0.00034J**	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:15	7439-92-1	
Lithium	**0.044**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:15	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:15	7782-49-2	
Thallium	**0.00047J**	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**324**	mg/L	25.0	25.0	1		09/11/24 13:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:42		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 20:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		09/11/24 19:14	16887-00-6	
Fluoride	**0.48**	mg/L	0.10	0.050	1		09/11/24 19:14	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-47 **Lab ID: 92751700012** Collected: 09/05/24 15:21 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**136**	mg/L	3.0	1.5	3		09/12/24 05:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FD-3 **Lab ID: 92751700013** Collected: 09/05/24 00:00 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 18:33	7439-89-6	
Potassium	**4.5**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 18:33	7440-09-7	
Sodium	**17.6**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 18:33	7440-23-5	
Calcium	**29.5**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 18:33	7440-70-2	
Magnesium	**6.4**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 18:33	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:18	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:18	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:18	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:18	7439-93-2	
Molybdenum	**0.0077J**	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:18	7439-98-7	
Selenium	**0.0027J**	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**210**	mg/L	25.0	25.0	1		09/11/24 13:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**22.9**	mg/L	5.0	5.0	1		09/11/24 20:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:44		
Alkalinity, Total as CaCO3	**22.9**	mg/L	5.0	5.0	1		09/11/24 20:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.5**	mg/L	1.0	0.60	1		09/11/24 19:29	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		09/11/24 19:29	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FD-3 **Lab ID: 92751700013** Collected: 09/05/24 00:00 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**95.1**	mg/L	2.0	1.0	2		09/12/24 05:48	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FD-2 **Lab ID: 92751700014** Collected: 09/05/24 00:00 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:08	09/14/24 17:09	7439-89-6	
Magnesium	**9.2**	mg/L	0.050	0.012	1	09/12/24 13:08	09/14/24 17:09	7439-95-4	
Potassium	**16.3**	mg/L	5.0	1.5	10	09/12/24 13:08	09/15/24 01:12	7440-09-7	
Sodium	**21.1**	mg/L	10.0	5.8	10	09/12/24 13:08	09/15/24 01:12	7440-23-5	
Calcium	**126**	mg/L	10.0	1.2	10	09/12/24 13:08	09/15/24 01:12	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:22	7440-36-0	
Arsenic	**0.035**	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:22	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:22	7440-39-3	
Beryllium	**0.011**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:22	7440-41-7	
Boron	**2.7**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:22	7440-42-8	
Cadmium	**0.0045**	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:22	7440-43-9	
Chromium	**0.0024J**	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:22	7440-47-3	
Cobalt	**1.9**	mg/L	0.050	0.0032	10	09/11/24 14:25	09/17/24 16:12	7440-48-4	
Lead	**0.0017J**	mg/L	0.010	0.0016	10	09/11/24 14:25	09/17/24 16:12	7439-92-1	D3
Lithium	**0.016J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:22	7439-98-7	
Selenium	**0.091**	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:22	7782-49-2	
Thallium	ND	mg/L	0.010	0.0038	10	09/11/24 14:25	09/17/24 16:12	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 10:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1230**	mg/L	25.0	25.0	1		09/11/24 13:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:50		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 20:50		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**26.1**	mg/L	1.0	0.60	1		09/11/24 19:45	16887-00-6	
Fluoride	**1.8**	mg/L	0.10	0.050	1		09/11/24 19:45	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-FD-2 **Lab ID: 92751700014** Collected: 09/05/24 00:00 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**715**	mg/L	15.0	7.5	15		09/12/24 06:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-EB-2 **Lab ID: 92751700015** Collected: 09/05/24 13:00 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 18:42	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 18:42	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 18:42	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 18:42	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 18:42	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:26	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:26	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:26	7440-47-3	
Cobalt	**0.00049J**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 11:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**32.0**	mg/L	25.0	25.0	1		09/11/24 13:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:53		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 20:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/11/24 13:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/11/24 13:14	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-AP234-EB-2 **Lab ID: 92751700015** Collected: 09/05/24 13:00 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/11/24 13:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-15 **Lab ID: 92751700016** Collected: 09/05/24 10:03 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.068**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 18:47	7439-89-6	
Potassium	**4.3**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 18:47	7440-09-7	
Sodium	**21.2**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 18:47	7440-23-5	
Calcium	**30.2**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 18:47	7440-70-2	
Magnesium	**12.4**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 18:47	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:37	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:37	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:37	7440-42-8	
Cadmium	**0.00010J**	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:37	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:37	7439-92-1	
Lithium	**0.0052J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 11:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**283**	mg/L	25.0	25.0	1		09/11/24 13:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**18.0**	mg/L	5.0	5.0	1		09/11/24 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 20:56		
Alkalinity, Total as CaCO3	**18.0**	mg/L	5.0	5.0	1		09/11/24 20:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.5**	mg/L	1.0	0.60	1		09/11/24 20:31	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		09/11/24 20:31	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-15 **Lab ID: 92751700016** Collected: 09/05/24 10:03 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**123**	mg/L	3.0	1.5	3		09/12/24 06:18	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-19 **Lab ID: 92751700017** Collected: 09/05/24 10:15 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.040J**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 19:01	7439-89-6	
Potassium	**4.1**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 19:01	7440-09-7	
Sodium	**41.2**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 19:01	7440-23-5	
Calcium	**106**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 19:01	7440-70-2	
Magnesium	**10**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 19:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:40	7440-36-0	
Arsenic	**0.0011J**	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:40	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:40	7440-39-3	
Beryllium	**0.0016**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:40	7440-41-7	
Boron	**2.3**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:40	7440-42-8	
Cadmium	**0.00030J**	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:40	7440-43-9	
Chromium	**0.0024J**	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:40	7440-47-3	
Cobalt	**0.052**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:40	7440-48-4	
Lead	**0.0014**	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:40	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:40	7439-98-7	
Selenium	**0.0032J**	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:40	7782-49-2	
Thallium	**0.00057J**	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 11:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**683**	mg/L	25.0	25.0	1		09/11/24 13:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 21:02		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 21:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/12/24 05:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.6**	mg/L	1.0	0.60	1		09/11/24 21:18	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		09/11/24 21:18	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-19 **Lab ID: 92751700017** Collected: 09/05/24 10:15 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**376**	mg/L	8.0	4.0	8		09/12/24 07:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-2 **Lab ID: 92751700018** Collected: 09/09/24 16:06 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 17:29	09/17/24 20:11	7439-89-6	
Magnesium	**6.4**	mg/L	0.050	0.012	1	09/12/24 17:29	09/17/24 20:11	7439-95-4	
Potassium	**5.3**	mg/L	0.50	0.15	1	09/12/24 17:29	09/16/24 19:24	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	09/12/24 17:29	09/16/24 19:24	7440-23-5	
Calcium	**31.6**	mg/L	1.0	0.12	1	09/12/24 17:29	09/16/24 19:24	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 16:17	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 16:17	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 16:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/17/24 16:17	7440-41-7	
Boron	**0.34**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 16:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/17/24 16:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/17/24 16:17	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/17/24 16:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 16:17	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/17/24 16:17	7439-93-2	
Molybdenum	**0.0023J**	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 16:17	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 16:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 16:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 11:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**227**	mg/L	25.0	25.0	1		09/11/24 14:11		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**44.9**	mg/L	5.0	5.0	1		09/13/24 13:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:04		
Alkalinity, Total as CaCO3	**44.9**	mg/L	5.0	5.0	1		09/13/24 13:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		09/12/24 01:53	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		09/12/24 01:53	16984-48-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-2 **Lab ID: 92751700018** Collected: 09/09/24 16:06 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**89.1**	mg/L	1.0	0.50	1		09/12/24 01:53	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-8 **Lab ID: 92751700019** Collected: 09/09/24 12:03 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.6**	mg/L	0.50	0.15	1	09/12/24 17:29	09/16/24 19:29	7440-09-7	
Sodium	**11.5**	mg/L	1.0	0.58	1	09/12/24 17:29	09/16/24 19:29	7440-23-5	
Calcium	**23.4**	mg/L	1.0	0.12	1	09/12/24 17:29	09/16/24 19:29	7440-70-2	
Iron	ND	mg/L	0.040	0.025	1	09/12/24 17:29	09/17/24 20:16	7439-89-6	
Magnesium	**12.1**	mg/L	0.050	0.012	1	09/12/24 17:29	09/17/24 20:16	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0021J**	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 16:33	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 16:33	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 16:33	7440-39-3	
Beryllium	**0.00074**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/17/24 16:33	7440-41-7	
Boron	**0.57**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 16:33	7440-42-8	
Cadmium	**0.00068**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/17/24 16:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/17/24 16:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/17/24 16:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 16:33	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/17/24 16:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 16:33	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 16:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 16:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 11:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**241**	mg/L	25.0	25.0	1		09/11/24 14:11		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**7.4**	mg/L	5.0	5.0	1		09/13/24 13:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:11		
Alkalinity, Total as CaCO3	**7.4**	mg/L	5.0	5.0	1		09/13/24 13:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.2**	mg/L	1.0	0.60	1		09/12/24 02:40	16887-00-6	
Fluoride	**0.076J**	mg/L	0.10	0.050	1		09/12/24 02:40	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-8 **Lab ID: 92751700019** Collected: 09/09/24 12:03 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**103**	mg/L	2.0	1.0	2		09/12/24 08:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-11 **Lab ID: 92751700020** Collected: 09/09/24 15:10 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 17:29	09/17/24 20:58	7439-89-6	
Magnesium	**22.2**	mg/L	0.050	0.012	1	09/12/24 17:29	09/17/24 20:58	7439-95-4	
Potassium	**4.5**	mg/L	0.50	0.15	1	09/12/24 17:29	09/16/24 19:52	7440-09-7	
Sodium	**22.4**	mg/L	1.0	0.58	1	09/12/24 17:29	09/16/24 19:52	7440-23-5	
Calcium	**61.2**	mg/L	1.0	0.12	1	09/12/24 17:29	09/16/24 19:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 16:37	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 16:37	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 16:37	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/17/24 16:37	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 16:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/17/24 16:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/17/24 16:37	7440-47-3	
Cobalt	**0.00061J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/17/24 16:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 16:37	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/17/24 16:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 16:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 16:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 16:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 11:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**444**	mg/L	25.0	25.0	1		09/12/24 12:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.1**	mg/L	5.0	5.0	1		09/13/24 13:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:15		
Alkalinity, Total as CaCO3	**15.1**	mg/L	5.0	5.0	1		09/13/24 13:15		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.0**	mg/L	1.0	0.60	1		09/12/24 02:56	16887-00-6	
Fluoride	**0.056J**	mg/L	0.10	0.050	1		09/12/24 02:56	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-11 **Lab ID: 92751700020** Collected: 09/09/24 15:10 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**229**	mg/L	5.0	2.5	5		09/12/24 08:59	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-22 **Lab ID: 92751700021** Collected: 09/09/24 09:52 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 17:29	09/17/24 21:03	7439-89-6	
Magnesium	**19.6**	mg/L	0.050	0.012	1	09/12/24 17:29	09/17/24 21:03	7439-95-4	
Potassium	**6.4**	mg/L	0.50	0.15	1	09/12/24 17:29	09/16/24 19:57	7440-09-7	
Sodium	**28.1**	mg/L	1.0	0.58	1	09/12/24 17:29	09/16/24 19:57	7440-23-5	
Calcium	**55.5**	mg/L	1.0	0.12	1	09/12/24 17:29	09/16/24 19:57	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 16:42	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 16:42	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 16:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/17/24 16:42	7440-41-7	
Boron	**4.1**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 16:42	7440-42-8	
Cadmium	**0.00050J**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/17/24 16:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/17/24 16:42	7440-47-3	
Cobalt	**0.0056**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/17/24 16:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 16:42	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/17/24 16:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 16:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 16:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 16:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**443**	mg/L	25.0	25.0	1		09/12/24 12:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.7**	mg/L	5.0	5.0	1		09/13/24 13:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:21		
Alkalinity, Total as CaCO3	**27.7**	mg/L	5.0	5.0	1		09/13/24 13:21		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.3**	mg/L	1.0	0.60	1		09/12/24 03:12	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		09/12/24 03:12	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-22 **Lab ID: 92751700021** Collected: 09/09/24 09:52 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**211**	mg/L	5.0	2.5	5		09/12/24 09:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-14 **Lab ID: 92751700022** Collected: 09/10/24 10:09 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.041**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 23:15	7439-89-6	
Magnesium	**4.6**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 23:15	7439-95-4	
Potassium	**3.7**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 00:49	7440-09-7	
Sodium	**8.0**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 00:49	7440-23-5	
Calcium	**11.1**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 00:49	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:58	7440-38-2	
Barium	**0.060**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:43	7440-41-7	
Boron	**0.12**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:58	7439-92-1	
Lithium	**0.0044J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:58	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:54	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.1**	mg/L	5.0	5.0	1		09/17/24 19:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 19:37		
Alkalinity, Total as CaCO3	**16.1**	mg/L	5.0	5.0	1		09/17/24 19:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**117**	mg/L	25.0	25.0	1		09/16/24 10:21		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		09/13/24 07:03	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		09/13/24 07:03	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-14 **Lab ID: 92751700022** Collected: 09/10/24 10:09 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**43.8**	mg/L	1.0	0.50	1		09/13/24 07:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-17 **Lab ID: 92751700023** Collected: 09/10/24 12:48 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.36**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 23:20	7439-89-6	
Magnesium	**54.4**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 23:20	7439-95-4	
Potassium	**4.4**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 00:53	7440-09-7	
Sodium	**19.8**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 00:53	7440-23-5	
Calcium	**16.4**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 00:53	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 19:02	7440-36-0	
Arsenic	**0.0048J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 19:02	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 19:02	7440-39-3	
Beryllium	**0.00059**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:47	7440-41-7	
Boron	**0.85**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 19:02	7440-42-8	
Cadmium	**0.00024J**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:47	7440-43-9	
Chromium	**0.0033J**	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:47	7440-47-3	
Cobalt	**0.016**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 19:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 19:02	7439-98-7	
Selenium	**0.0070**	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 19:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 19:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 19:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 19:42		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/17/24 19:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**476**	mg/L	31.2	31.2	1		09/16/24 10:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.3**	mg/L	1.0	0.60	1		09/13/24 07:19	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/13/24 07:19	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-17 **Lab ID: 92751700023** Collected: 09/10/24 12:48 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**261**	mg/L	6.0	3.0	6		09/13/24 11:11	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-48 **Lab ID: 92751700024** Collected: 09/10/24 13:07 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**19.8**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 01:08	7440-23-5	
Calcium	**53.8**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 01:08	7440-70-2	
Iron	**3.7**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 23:25	7439-89-6	
Potassium	**13.2**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 23:25	7440-09-7	
Magnesium	**12.6**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 23:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:04	7440-36-0	
Arsenic	**0.0025J**	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:04	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:04	7440-39-3	
Beryllium	**0.0053**	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 13:54	7440-41-7	
Boron	**0.45**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 13:54	7440-42-8	
Cadmium	**0.0022**	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/19/24 18:04	7440-47-3	
Cobalt	**0.29**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/19/24 18:04	7440-48-4	
Lead	**0.00086J**	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 18:04	7439-92-1	
Lithium	**0.090**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/19/24 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:04	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 18:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 13:00	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 19:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 19:47		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/17/24 19:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**469**	mg/L	25.0	25.0	1		09/16/24 10:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.8**	mg/L	1.0	0.60	1		09/13/24 07:34	16887-00-6	
Fluoride	**0.43**	mg/L	0.10	0.050	1		09/13/24 07:34	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-48 **Lab ID: 92751700024** Collected: 09/10/24 13:07 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**248**	mg/L	6.0	3.0	6		09/13/24 11:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-10 **Lab ID: 92751700025** Collected: 09/11/24 10:35 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.20	0.13	5	09/13/24 18:33	09/18/24 11:44	7439-89-6	D3
Potassium	**4.3**	mg/L	2.5	0.76	5	09/13/24 18:33	09/18/24 11:44	7440-09-7	
Sodium	**15.9**	mg/L	5.0	2.9	5	09/13/24 18:33	09/18/24 11:44	7440-23-5	
Calcium	**198**	mg/L	5.0	0.61	5	09/13/24 18:33	09/18/24 11:44	7440-70-2	
Magnesium	**8.7**	mg/L	0.25	0.059	5	09/13/24 18:33	09/18/24 11:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:20	7440-36-0	
Arsenic	**0.043**	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:20	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:20	7440-39-3	
Beryllium	**0.0081**	mg/L	0.0025	0.00047	5	09/14/24 14:02	09/24/24 14:58	7440-41-7	
Boron	**0.18J**	mg/L	0.20	0.060	5	09/14/24 14:02	09/24/24 14:58	7440-42-8	D3
Cadmium	**0.00047J**	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:20	7440-43-9	
Chromium	**0.0038J**	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/19/24 18:20	7440-47-3	
Cobalt	**0.099**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/19/24 18:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.00082	5	09/14/24 14:02	09/24/24 14:58	7439-92-1	D3
Lithium	**0.0054J**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/19/24 18:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:20	7439-98-7	
Selenium	**0.17**	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:20	7782-49-2	
Thallium	ND	mg/L	0.0050	0.0019	5	09/14/24 14:02	09/24/24 14:58	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 13:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/24 13:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/24 13:34		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/19/24 13:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1190**	mg/L	50.0	50.0	1		09/16/24 17:34		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.6**	mg/L	1.0	0.60	1		09/13/24 07:50	16887-00-6	
Fluoride	**1.6**	mg/L	0.10	0.050	1		09/13/24 07:50	16984-48-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-10 **Lab ID: 92751700025** Collected: 09/11/24 10:35 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**727**	mg/L	15.0	7.5	15		09/13/24 11:41	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-9 **Lab ID: 92751700026** Collected: 09/11/24 10:11 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**26.2**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 01:18	7440-23-5	
Calcium	**43.2**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 01:18	7440-70-2	
Iron	**0.049**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 23:44	7439-89-6	
Potassium	**4.8**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 23:44	7440-09-7	
Magnesium	**4.2**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 23:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:25	7440-36-0	
Arsenic	**0.013**	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:25	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:25	7440-39-3	
Beryllium	**0.0049**	mg/L	0.0025	0.00047	5	09/14/24 14:02	09/24/24 15:06	7440-41-7	
Boron	**0.48**	mg/L	0.20	0.060	5	09/14/24 14:02	09/24/24 15:06	7440-42-8	
Cadmium	**0.00058**	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/19/24 18:25	7440-47-3	
Cobalt	**0.27**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/19/24 18:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.00082	5	09/14/24 14:02	09/24/24 15:06	7439-92-1	D3
Lithium	**0.022J**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/19/24 18:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:25	7439-98-7	
Selenium	**0.040**	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:25	7782-49-2	
Thallium	ND	mg/L	0.0050	0.0019	5	09/14/24 14:02	09/24/24 15:06	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 13:05	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/24 13:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/24 13:38		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/19/24 13:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**458**	mg/L	31.2	31.2	1		09/16/24 17:34		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.4**	mg/L	1.0	0.60	1		09/13/24 08:36	16887-00-6	
Fluoride	**0.81**	mg/L	0.10	0.050	1		09/13/24 08:36	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Sample: MCD-DGWC-9 **Lab ID: 92751700026** Collected: 09/11/24 10:11 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**281**	mg/L	6.0	3.0	6		09/13/24 12:27	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 880838
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700001, 92751700002

METHOD BLANK: 4536493 Matrix: Water
Associated Lab Samples: 92751700001, 92751700002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/10/24 18:00	
Iron	mg/L	ND	0.040	0.025	09/10/24 18:00	
Magnesium	mg/L	ND	0.050	0.012	09/11/24 13:17	
Potassium	mg/L	ND	0.50	0.15	09/10/24 18:00	
Sodium	mg/L	ND	1.0	0.58	09/10/24 18:00	

LABORATORY CONTROL SAMPLE: 4536494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536495 4536496

Parameter	Units	92751658002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	92.0	1	1	90.7	89.9	-130	-209	75-125	1	20	M1
Iron	mg/L	11.6	1	1	12.3	12.2	63	58	75-125	0	20	M1
Magnesium	mg/L	27.0	1	1	23.9	24.3	-314	-271	75-125	2	20	M1
Potassium	mg/L	3.0	1	1	3.8	3.9	87	93	75-125	2	20	
Sodium	mg/L	13.8	1	1	14.3	14.6	50	81	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881937
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010

METHOD BLANK: 4542011 Matrix: Water
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/24 20:33	
Iron	mg/L	ND	0.040	0.025	09/13/24 20:33	
Magnesium	mg/L	ND	0.050	0.012	09/13/24 20:33	
Potassium	mg/L	ND	0.50	0.15	09/13/24 20:33	
Sodium	mg/L	ND	1.0	0.58	09/13/24 20:33	

LABORATORY CONTROL SAMPLE: 4542012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.92	92	80-120	
Potassium	mg/L	1	0.94	94	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542013 4542014

Parameter	Units	92752167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	117	1	1	114	118	-272	108	75-125	3	20	M1
Iron	mg/L	15.6	1	1	16.0	16.5	41	90	75-125	3	20	M1
Magnesium	mg/L	16.4	1	1	16.8	17.3	42	92	75-125	3	20	M1
Potassium	mg/L	5.8	1	1	6.5	6.8	77	104	75-125	4	20	
Sodium	mg/L	9.8	1	1	10.5	10.9	69	108	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882148
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

METHOD BLANK: 4542901 Matrix: Water
Associated Lab Samples: 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/24 17:48	
Iron	mg/L	ND	0.040	0.025	09/13/24 17:48	
Magnesium	mg/L	ND	0.050	0.012	09/13/24 17:48	
Potassium	mg/L	ND	0.50	0.15	09/13/24 17:48	
Sodium	mg/L	ND	1.0	0.58	09/13/24 17:48	

LABORATORY CONTROL SAMPLE: 4542902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	
Iron	mg/L	1	0.97	97	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	112	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542903 4542904

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	33.0	1	1	32.5	33.5	-49	47	75-125	3	20	M1
Iron	mg/L	0.042	1	1	0.96	0.96	92	92	75-125	0	20	
Magnesium	mg/L	20.4	1	1	20.4	21.1	-3	67	75-125	3	20	M1
Potassium	mg/L	5.7	1	1	6.5	6.7	77	96	75-125	3	20	
Sodium	mg/L	75.7	1	1	73.6	76.3	-204	57	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882215
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

METHOD BLANK: 4543444 Matrix: Water
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/16/24 17:49	
Iron	mg/L	ND	0.040	0.025	09/17/24 18:51	
Magnesium	mg/L	ND	0.050	0.012	09/17/24 18:51	
Potassium	mg/L	ND	0.50	0.15	09/16/24 17:49	
Sodium	mg/L	ND	1.0	0.58	09/16/24 17:49	

LABORATORY CONTROL SAMPLE: 4543445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	1.2	120	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4543446 4543447

Parameter	Units	92752880002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	14.3	1	1	15.0	15.2	69	90	75-125	1	20	M1
Iron	mg/L	0.49	1	1	1.2	1.3	75	78	75-125	2	20	
Magnesium	mg/L	3.0	1	1	3.9	3.8	93	83	75-125	3	20	
Potassium	mg/L	3.5	1	1	4.5	4.6	95	102	75-125	1	20	
Sodium	mg/L	14.1	1	1	14.9	15.2	87	111	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882611
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700022, 92751700023, 92751700024, 92751700025, 92751700026

METHOD BLANK: 4545809 Matrix: Water
Associated Lab Samples: 92751700022, 92751700023, 92751700024, 92751700025, 92751700026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/16/24 23:10	
Iron	mg/L	ND	0.040	0.025	09/17/24 21:44	
Magnesium	mg/L	ND	0.050	0.012	09/17/24 21:44	
Potassium	mg/L	ND	0.50	0.15	09/16/24 23:10	
Sodium	mg/L	ND	1.0	0.58	09/16/24 23:10	

LABORATORY CONTROL SAMPLE: 4545810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.94	94	80-120	
Potassium	mg/L	1	1.2	119	80-120	
Sodium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545811 4545812

Parameter	Units	92751692012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	26.3	1	1	27.7	27.6	140	131	75-125	0	20	M1
Iron	mg/L	ND	1	1	0.97	0.97	97	97	75-125	0	20	
Magnesium	mg/L	12.2	1	1	13.4	13.6	120	140	75-125	2	20	M1
Potassium	mg/L	3.7	1	1	4.8	4.8	117	109	75-125	2	20	
Sodium	mg/L	13.2	1	1	14.5	14.6	123	139	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 880813
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700001, 92751700002

METHOD BLANK: 4536258 Matrix: Water
Associated Lab Samples: 92751700001, 92751700002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/09/24 15:53	
Arsenic	mg/L	0.0014J	0.0050	0.00084	09/09/24 15:53	
Barium	mg/L	ND	0.0050	0.00047	09/09/24 15:53	
Beryllium	mg/L	ND	0.00050	0.000094	09/09/24 15:53	
Boron	mg/L	ND	0.040	0.012	09/09/24 15:53	
Cadmium	mg/L	ND	0.00050	0.00010	09/09/24 15:53	
Chromium	mg/L	ND	0.0050	0.0019	09/09/24 15:53	
Cobalt	mg/L	ND	0.0050	0.00032	09/09/24 15:53	
Lead	mg/L	ND	0.0010	0.00016	09/09/24 15:53	
Lithium	mg/L	ND	0.030	0.0016	09/09/24 15:53	
Molybdenum	mg/L	ND	0.010	0.00062	09/09/24 15:53	
Selenium	mg/L	ND	0.0050	0.00096	09/09/24 15:53	
Thallium	mg/L	ND	0.0010	0.00038	09/09/24 15:53	

LABORATORY CONTROL SAMPLE: 4536259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536260 4536261

Parameter	Units	92751658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.097	95	97	75-125	2	20	
Arsenic	mg/L	0.00093J	0.1	0.1	0.096	0.095	95	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536260 4536261

Parameter	Units	92751658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.067	0.1	0.1	0.16	0.16	91	92	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Boron	mg/L	1.5	1	1	2.4	2.4	89	89	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.0019J	0.1	0.1	0.095	0.095	93	93	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.093	94	93	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881820
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010

METHOD BLANK: 4541044 Matrix: Water
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/13/24 16:39	
Arsenic	mg/L	ND	0.0050	0.00084	09/13/24 16:39	
Barium	mg/L	ND	0.0050	0.00047	09/13/24 16:39	
Beryllium	mg/L	ND	0.00050	0.000094	09/13/24 16:39	
Boron	mg/L	ND	0.040	0.012	09/13/24 16:39	
Cadmium	mg/L	ND	0.00050	0.00010	09/13/24 16:39	
Chromium	mg/L	ND	0.0050	0.0019	09/13/24 16:39	
Cobalt	mg/L	ND	0.0050	0.00032	09/13/24 16:39	
Lead	mg/L	ND	0.0010	0.00016	09/13/24 16:39	
Lithium	mg/L	ND	0.030	0.0016	09/13/24 16:39	
Molybdenum	mg/L	ND	0.010	0.00062	09/13/24 16:39	
Selenium	mg/L	ND	0.0050	0.00096	09/13/24 16:39	
Thallium	mg/L	ND	0.0010	0.00038	09/13/24 16:39	

LABORATORY CONTROL SAMPLE: 4541045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541046 4541047

Parameter	Units	92752167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0014J	0.1	0.1	0.10	0.099	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541046 4541047

Parameter	Units	92752167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.30	0.1	0.1	0.40	0.40	95	95	75-125	0	20	
Barium	mg/L	0.050	0.1	0.1	0.15	0.15	99	99	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.090	0.089	90	89	75-125	1	20	
Boron	mg/L	0.56	1	1	1.5	1.5	91	90	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20	
Cobalt	mg/L	0.12	0.1	0.1	0.21	0.21	89	91	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20	
Lithium	mg/L	0.053	0.1	0.1	0.14	0.14	89	89	75-125	0	20	
Molybdenum	mg/L	0.010	0.1	0.1	0.11	0.11	99	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.095	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881825
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

METHOD BLANK: 4541064 Matrix: Water
Associated Lab Samples: 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/16/24 18:53	
Arsenic	mg/L	ND	0.0050	0.00084	09/16/24 18:53	
Barium	mg/L	ND	0.0050	0.00047	09/16/24 18:53	
Beryllium	mg/L	ND	0.00050	0.000094	09/16/24 18:53	
Boron	mg/L	ND	0.040	0.012	09/16/24 18:53	
Cadmium	mg/L	ND	0.00050	0.00010	09/16/24 18:53	
Chromium	mg/L	ND	0.0050	0.0019	09/16/24 18:53	
Cobalt	mg/L	ND	0.0050	0.00032	09/16/24 18:53	
Lead	mg/L	ND	0.0010	0.00016	09/16/24 18:53	
Lithium	mg/L	ND	0.030	0.0016	09/16/24 18:53	
Molybdenum	mg/L	ND	0.010	0.00062	09/16/24 18:53	
Selenium	mg/L	ND	0.0050	0.00096	09/16/24 18:53	
Thallium	mg/L	ND	0.0010	0.00038	09/16/24 18:53	

LABORATORY CONTROL SAMPLE: 4541065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541066 4541067

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541066 4541067

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	94	95	75-125	1	20	
Beryllium	mg/L	0.0027	0.1	0.1	0.089	0.091	86	88	75-125	2	20	
Boron	mg/L	1.1	1	1	1.9	1.9	76	78	75-125	1	20	
Cadmium	mg/L	0.00098	0.1	0.1	0.094	0.095	93	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Cobalt	mg/L	0.010	0.1	0.1	0.10	0.10	92	93	75-125	1	20	
Lead	mg/L	0.00021J	0.1	0.1	0.093	0.093	93	92	75-125	0	20	
Lithium	mg/L	0.0099J	0.1	0.1	0.098	0.10	88	90	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882511
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021, 92751700022, 92751700023

METHOD BLANK: 4545096 Matrix: Water
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021, 92751700022, 92751700023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/17/24 16:08	
Arsenic	mg/L	ND	0.0050	0.00084	09/17/24 16:08	
Barium	mg/L	ND	0.0050	0.00047	09/17/24 16:08	
Beryllium	mg/L	ND	0.00050	0.000094	09/17/24 16:08	
Boron	mg/L	ND	0.040	0.012	09/17/24 16:08	
Cadmium	mg/L	ND	0.00050	0.00010	09/17/24 16:08	
Chromium	mg/L	ND	0.0050	0.0019	09/17/24 16:08	
Cobalt	mg/L	ND	0.0050	0.00032	09/17/24 16:08	
Lead	mg/L	ND	0.0010	0.00016	09/17/24 16:08	
Lithium	mg/L	ND	0.030	0.0016	09/17/24 16:08	
Molybdenum	mg/L	ND	0.010	0.00062	09/17/24 16:08	
Selenium	mg/L	ND	0.0050	0.00096	09/17/24 16:08	
Thallium	mg/L	ND	0.0010	0.00038	09/17/24 16:08	

LABORATORY CONTROL SAMPLE: 4545097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Arsenic	mg/L	0.0027J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.023	0.1	0.1	0.12	0.13	101	104	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	0.34	1	1	1.3	1.4	97	101	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	97	75-125	2	20	
Cobalt	mg/L	0.0021J	0.1	0.1	0.10	0.098	99	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.092	96	92	75-125	3	20	
Lithium	mg/L	0.016J	0.1	0.1	0.11	0.11	97	97	75-125	0	20	
Molybdenum	mg/L	0.0023J	0.1	0.1	0.098	0.10	96	99	75-125	3	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.091	94	91	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882694
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700024, 92751700025, 92751700026

METHOD BLANK: 4546278 Matrix: Water
Associated Lab Samples: 92751700024, 92751700025, 92751700026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/19/24 17:56	
Arsenic	mg/L	ND	0.0050	0.00084	09/19/24 17:56	
Barium	mg/L	ND	0.0050	0.00047	09/19/24 17:56	
Beryllium	mg/L	ND	0.00050	0.000094	09/24/24 13:30	
Boron	mg/L	ND	0.040	0.012	09/24/24 13:30	
Cadmium	mg/L	ND	0.00050	0.00010	09/19/24 17:56	
Chromium	mg/L	ND	0.0050	0.0019	09/19/24 17:56	
Cobalt	mg/L	ND	0.0050	0.00032	09/19/24 17:56	
Lead	mg/L	ND	0.0010	0.00016	09/19/24 17:56	
Lithium	mg/L	ND	0.030	0.0016	09/19/24 17:56	
Molybdenum	mg/L	ND	0.010	0.00062	09/19/24 17:56	
Selenium	mg/L	ND	0.0050	0.00096	09/19/24 17:56	
Thallium	mg/L	ND	0.0010	0.00038	09/19/24 17:56	

LABORATORY CONTROL SAMPLE: 4546279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.93	93	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4546280 4546281

Parameter	Units	92751700024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	2	20	
Arsenic	mg/L	0.0025J	0.1	0.1	0.10	0.10	99	102	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4546280 4546281

Parameter	Units	92751700024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.015	0.1	0.1	0.12	0.12	108	107	75-125	1	20	
Beryllium	mg/L	0.0053	0.1	0.1	0.094	0.094	88	89	75-125	1	20	
Boron	mg/L	0.45	1	1	1.3	1.4	83	97	75-125	10	20	
Cadmium	mg/L	0.0022	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	0.29	0.1	0.1	0.39	0.38	98	94	75-125	1	20	
Lead	mg/L	0.00086J	0.1	0.1	0.096	0.096	95	95	75-125	0	20	
Lithium	mg/L	0.090	0.1	0.1	0.19	0.19	103	100	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20	
Selenium	mg/L	0.0018J	0.1	0.1	0.099	0.10	97	102	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 883897 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92751700001, 92751700002, 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017, 92751700018, 92751700019, 92751700020

METHOD BLANK: 4551838 — Matrix: Water

Associated Lab Samples: 92751700001, 92751700002, 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017, 92751700018, 92751700019, 92751700020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/20/24 10:01	

LABORATORY CONTROL SAMPLE: 4551839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4551840 4551841

Parameter	Units	92751700001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	93	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 883900
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700021, 92751700022, 92751700023, 92751700024, 92751700025, 92751700026

METHOD BLANK: 4551853 Matrix: Water
Associated Lab Samples: 92751700021, 92751700022, 92751700023, 92751700024, 92751700025, 92751700026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/20/24 11:23	

LABORATORY CONTROL SAMPLE: 4551854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4551855 4551856

Parameter	Units	92751692013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	100	95	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881518
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700001, 92751700002

METHOD BLANK: 4539487 Matrix: Water
Associated Lab Samples: 92751700001, 92751700002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/10/24 12:49	

LABORATORY CONTROL SAMPLE: 4539488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	80-120	

SAMPLE DUPLICATE: 4539489

Parameter	Units	92745448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	9160	9160	0	10	H1

SAMPLE DUPLICATE: 4539490

Parameter	Units	92751692003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1320	1310	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881821 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

METHOD BLANK: 4541049 Matrix: Water
Associated Lab Samples: 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/24 13:43	

LABORATORY CONTROL SAMPLE: 4541050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	425	106	80-120	

SAMPLE DUPLICATE: 4541051

Parameter	Units	92752167007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	570	598	5	10	

SAMPLE DUPLICATE: 4541052

Parameter	Units	92751700009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1220	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881824 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700018, 92751700019

METHOD BLANK: 4541058 Matrix: Water
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700018, 92751700019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/24 14:03	

LABORATORY CONTROL SAMPLE: 4541059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	422	106	80-120	

SAMPLE DUPLICATE: 4541060

Parameter	Units	92752185001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	511	532	4	10	

SAMPLE DUPLICATE: 4541061

Parameter	Units	92751700004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1290	1270	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882138
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751700020, 92751700021

METHOD BLANK: 4542861 Matrix: Water
Associated Lab Samples: 92751700020, 92751700021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/12/24 12:45	

LABORATORY CONTROL SAMPLE: 4542862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	402	100	80-120	

SAMPLE DUPLICATE: 4542863

Parameter	Units	92751700020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	444	459	3	10	

SAMPLE DUPLICATE: 4542864

Parameter	Units	92751692017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	528	539	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881044
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700001, 92751700002

METHOD BLANK: 4537672 Matrix: Water
Associated Lab Samples: 92751700001, 92751700002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/10/24 17:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/10/24 17:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/10/24 17:39	

LABORATORY CONTROL SAMPLE: 4537673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

LABORATORY CONTROL SAMPLE: 4537674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.8	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537677 4537678

Parameter	Units	92751341004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	123	50	50	175	180	104	113	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540803 4540804

Parameter	Units	92751673002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	15.3	50	50	66.8	67.6	103	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881869
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

METHOD BLANK: 4541419 Matrix: Water
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/24 19:27	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 19:27	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 19:27	

LABORATORY CONTROL SAMPLE: 4541420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

LABORATORY CONTROL SAMPLE: 4541421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.7	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541422 4541423

Parameter	Units	92752470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	ND	ND	4	5	80-120		25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541424 4541425

Parameter	Units	92751700007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	35.1	50	50	76.1	76.4	82	83	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882134
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

METHOD BLANK: 4542829 Matrix: Water
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/13/24 10:55	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 10:55	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 10:55	

LABORATORY CONTROL SAMPLE: 4542830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4542831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.7	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542832 4542833

Parameter	Units	92752827004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	317	50	50	365	372	96	111	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542834 4542835

Parameter	Units	92752827005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	61.7	50	50	99.1	98.4	75	73	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 883222 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700022, 92751700023, 92751700024

METHOD BLANK: 4548387 Matrix: Water
Associated Lab Samples: 92751700022, 92751700023, 92751700024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/17/24 17:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/17/24 17:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/17/24 17:45	

LABORATORY CONTROL SAMPLE: 4548388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 4548389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.7	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4548390 4548391

Parameter	Units	92753035001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	44.4	50	50	93.1	92.5	97	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4548392 4548393

Parameter	Units	92753035002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	43.9	50	50	93.9	92.9	100	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 883594
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700025, 92751700026

METHOD BLANK: 4550280 Matrix: Water
Associated Lab Samples: 92751700025, 92751700026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/19/24 11:44	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/24 11:44	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/24 11:44	

LABORATORY CONTROL SAMPLE: 4550281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

LABORATORY CONTROL SAMPLE: 4550282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4550283 4550284

Parameter	Units	92752827003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	169	50	50	222	219	106	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4550285 4550286

Parameter	Units	92753953001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	91.8	50	50	126	124	69	65	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882744
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700022, 92751700023, 92751700024

METHOD BLANK: 4546410 Matrix: Water
Associated Lab Samples: 92751700022, 92751700023, 92751700024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/16/24 10:19	

LABORATORY CONTROL SAMPLE: 4546411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4546412

Parameter	Units	92752880004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	117	5	25	

SAMPLE DUPLICATE: 4546413

Parameter	Units	92751700024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	469	470	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882932
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700025, 92751700026

METHOD BLANK: 4547081 Matrix: Water
Associated Lab Samples: 92751700025, 92751700026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/16/24 17:33	

LABORATORY CONTROL SAMPLE: 4547082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4547083

Parameter	Units	92752529001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	646	650	1	25	

SAMPLE DUPLICATE: 4547084

Parameter	Units	92751673003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	122	126	3	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881394
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700001, 92751700002

METHOD BLANK: 4539194 Matrix: Water
Associated Lab Samples: 92751700001, 92751700002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/10/24 04:20	

LABORATORY CONTROL SAMPLE: 4539195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.45	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539196 4539197

Parameter	Units	92751700001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.54	97	108	80-120	10	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539198 4539199

Parameter	Units	92752167009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.54	101	107	80-120	5	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881720
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

METHOD BLANK: 4540726 Matrix: Water
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015, 92751700016, 92751700017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/12/24 05:15	

LABORATORY CONTROL SAMPLE: 4540727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540728 4540729

Parameter	Units	92751700007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.52	101	105	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540730 4540731

Parameter	Units	92751700017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.45	0.46	91	91	80-120	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882376
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

METHOD BLANK: 4544511 Matrix: Water
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/14/24 03:31	

LABORATORY CONTROL SAMPLE: 4544512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544513 4544514

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.49	94	98	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544515 4544516

Parameter	Units	92751692016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.57	91	113	80-120	22	10	R1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882377
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700022, 92751700023, 92751700024, 92751700025, 92751700026

METHOD BLANK: 4544517 Matrix: Water
Associated Lab Samples: 92751700022, 92751700023, 92751700024, 92751700025, 92751700026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/14/24 03:45	

LABORATORY CONTROL SAMPLE: 4544518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544519 4544520

Parameter	Units	92752833004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.51	93	102	80-120	9	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544521 4544522

Parameter	Units	92751692025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.54	99	107	80-120	8	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881040
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700001, 92751700002

METHOD BLANK: 4537652 Matrix: Water
Associated Lab Samples: 92751700001, 92751700002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/24 23:42	
Fluoride	mg/L	ND	0.10	0.050	09/07/24 23:42	
Sulfate	mg/L	ND	1.0	0.50	09/07/24 23:42	

LABORATORY CONTROL SAMPLE: 4537653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537654 4537655

Parameter	Units	92751700001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.0	50	50	68.4	68.8	101	102	90-110	1	10	
Fluoride	mg/L	0.065J	2.5	2.5	3.0	3.1	116	120	90-110	3	10	M1
Sulfate	mg/L	253	50	50	288	286	70	67	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537656 4537657

Parameter	Units	92752003003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.0	50	50	60.1	60.7	102	103	90-110	1	10	
Fluoride	mg/L	0.14	2.5	2.5	3.9	3.9	151	149	90-110	1	10	M1
Sulfate	mg/L	113	50	50	153	155	80	83	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881658
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015

METHOD BLANK: 4540511 Matrix: Water
Associated Lab Samples: 92751700003, 92751700004, 92751700005, 92751700006, 92751700007, 92751700008, 92751700009, 92751700010, 92751700011, 92751700012, 92751700013, 92751700014, 92751700015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/11/24 10:54	
Fluoride	mg/L	ND	0.10	0.050	09/11/24 10:54	
Sulfate	mg/L	ND	1.0	0.50	09/11/24 10:54	

LABORATORY CONTROL SAMPLE: 4540512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540513 4540514

Parameter	Units	92752470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	20.1	50	50	70.1	72.7	100	105	90-110	4	10	
Fluoride	mg/L	1.3	2.5	2.5	3.6	3.7	94	99	90-110	4	10	
Sulfate	mg/L	205	50	50	279	275	148	139	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540515 4540516

Parameter	Units	92751700006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.1	51.1	100	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	108	105	90-110	3	10	
Sulfate	mg/L	ND	50	50	51.1	51.9	102	104	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881674
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700016, 92751700017

METHOD BLANK: 4540587 Matrix: Water
Associated Lab Samples: 92751700016, 92751700017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/11/24 20:00	
Fluoride	mg/L	ND	0.10	0.050	09/11/24 20:00	
Sulfate	mg/L	ND	1.0	0.50	09/11/24 20:00	

LABORATORY CONTROL SAMPLE: 4540588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.3	92	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540589 4540590

Parameter	Units	92751700016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	20.5	50	50	71.2	72.3	101	104	90-110	2	10	
Fluoride	mg/L	0.061J	2.5	2.5	2.5	2.5	98	99	90-110	1	10	
Sulfate	mg/L	123	50	50	167	168	89	90	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 881917
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

METHOD BLANK: 4541849 Matrix: Water
Associated Lab Samples: 92751700018, 92751700019, 92751700020, 92751700021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/11/24 21:39	
Fluoride	mg/L	ND	0.10	0.050	09/11/24 21:39	
Sulfate	mg/L	ND	1.0	0.50	09/11/24 21:39	

LABORATORY CONTROL SAMPLE: 4541850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.7	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541851 4541852

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.1	50	50	52.3	53.5	100	103	90-110	2	10	
Fluoride	mg/L	0.093J	2.5	2.5	2.9	3.0	113	115	90-110	2	10	M1
Sulfate	mg/L	89.1	50	50	118	122	58	65	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541853 4541854

Parameter	Units	92751692014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.2	51.2	100	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.3	51.3	100	102	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882290
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700022, 92751700023, 92751700024

METHOD BLANK: 4543999 Matrix: Water
Associated Lab Samples: 92751700022, 92751700023, 92751700024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/24 21:32	
Fluoride	mg/L	ND	0.10	0.050	09/12/24 21:32	
Sulfate	mg/L	ND	1.0	0.50	09/12/24 21:32	

LABORATORY CONTROL SAMPLE: 4544000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544001 4544002

Parameter	Units	92753093001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.7	50	50	61.8	62.0	102	103	90-110	0	10	
Fluoride	mg/L	0.56	2.5	2.5	3.2	3.0	105	100	90-110	4	10	
Sulfate	mg/L	11.5	50	50	63.9	64.1	105	105	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544003 4544004

Parameter	Units	92753035003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.3	50	50	56.7	57.7	101	103	90-110	2	10	
Fluoride	mg/L	0.072J	2.5	2.5	2.4	2.4	93	95	90-110	2	10	
Sulfate	mg/L	2.3	50	50	53.7	54.7	103	105	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

QC Batch: 882291
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751700025, 92751700026

METHOD BLANK: 4544010 Matrix: Water
Associated Lab Samples: 92751700025, 92751700026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/24 22:03	
Fluoride	mg/L	ND	0.10	0.050	09/12/24 22:03	
Sulfate	mg/L	ND	1.0	0.50	09/12/24 22:03	

LABORATORY CONTROL SAMPLE: 4544011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544012 4544013

Parameter	Units	92751700025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.6	50	50	62.2	62.7	101	102	90-110	1	10	
Fluoride	mg/L	1.6	2.5	2.5	4.4	4.4	111	114	90-110	2	10	M1
Sulfate	mg/L	727	50	50	786	792	120	131	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544014 4544015

Parameter	Units	92753142002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.4	50.5	99	101	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	106	103	90-110	3	10	
Sulfate	mg/L	ND	50	50	50.4	51.1	101	102	90-110	2	10	

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QUALIFIERS

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751700001	**MCD-DGWC-21**	EPA 3010A	880838	EPA 6010D	880939
92751700002	**MCD-AP234-FB-2**	EPA 3010A	880838	EPA 6010D	880939
92751700003	**MCD-DGWC-5**	EPA 3010A	881937	EPA 6010D	882242
92751700004	**MCD-DGWC-4**	EPA 3010A	881937	EPA 6010D	882242
92751700005	**MCD-AP234-FB-3**	EPA 3010A	881937	EPA 6010D	882242
92751700006	**MCD-AP234-EB-3**	EPA 3010A	881937	EPA 6010D	882242
92751700007	**MCD-DGWC-12**	EPA 3010A	881937	EPA 6010D	882242
92751700008	**MCD-DGWC-13**	EPA 3010A	881937	EPA 6010D	882242
92751700009	**MCD-DGWC-20**	EPA 3010A	881937	EPA 6010D	882242
92751700010	**MCD-DGWC-23**	EPA 3010A	881937	EPA 6010D	882242
92751700011	**MCD-DGWC-42**	EPA 3010A	882148	EPA 6010D	882244
92751700012	**MCD-DGWC-47**	EPA 3010A	882148	EPA 6010D	882244
92751700013	**MCD-AP234-FD-3**	EPA 3010A	882148	EPA 6010D	882244
92751700014	**MCD-AP234-FD-2**	EPA 3010A	882148	EPA 6010D	882244
92751700015	**MCD-AP234-EB-2**	EPA 3010A	882148	EPA 6010D	882244
92751700016	**MCD-DGWC-15**	EPA 3010A	882148	EPA 6010D	882244
92751700017	**MCD-DGWC-19**	EPA 3010A	882148	EPA 6010D	882244
92751700018	**MCD-DGWC-2**	EPA 3010A	882215	EPA 6010D	882317
92751700019	**MCD-DGWC-8**	EPA 3010A	882215	EPA 6010D	882317
92751700020	**MCD-DGWC-11**	EPA 3010A	882215	EPA 6010D	882317
92751700021	**MCD-DGWC-22**	EPA 3010A	882215	EPA 6010D	882317
92751700022	**MCD-DGWC-14**	EPA 3010A	882611	EPA 6010D	882633
92751700023	**MCD-DGWC-17**	EPA 3010A	882611	EPA 6010D	882633
92751700024	**MCD-DGWC-48**	EPA 3010A	882611	EPA 6010D	882633
92751700025	**MCD-DGWC-10**	EPA 3010A	882611	EPA 6010D	882633
92751700026	**MCD-DGWC-9**	EPA 3010A	882611	EPA 6010D	882633
92751700001	**MCD-DGWC-21**	EPA 3005A	880813	EPA 6020B	880958
92751700002	**MCD-AP234-FB-2**	EPA 3005A	880813	EPA 6020B	880958
92751700003	**MCD-DGWC-5**	EPA 3005A	881820	EPA 6020B	881940
92751700004	**MCD-DGWC-4**	EPA 3005A	881820	EPA 6020B	881940
92751700005	**MCD-AP234-FB-3**	EPA 3005A	881820	EPA 6020B	881940
92751700006	**MCD-AP234-EB-3**	EPA 3005A	881820	EPA 6020B	881940
92751700007	**MCD-DGWC-12**	EPA 3005A	881820	EPA 6020B	881940
92751700008	**MCD-DGWC-13**	EPA 3005A	881820	EPA 6020B	881940
92751700009	**MCD-DGWC-20**	EPA 3005A	881820	EPA 6020B	881940
92751700010	**MCD-DGWC-23**	EPA 3005A	881820	EPA 6020B	881940
92751700011	**MCD-DGWC-42**	EPA 3005A	881825	EPA 6020B	881952
92751700012	**MCD-DGWC-47**	EPA 3005A	881825	EPA 6020B	881952
92751700013	**MCD-AP234-FD-3**	EPA 3005A	881825	EPA 6020B	881952
92751700014	**MCD-AP234-FD-2**	EPA 3005A	881825	EPA 6020B	881952
92751700015	**MCD-AP234-EB-2**	EPA 3005A	881825	EPA 6020B	881952
92751700016	**MCD-DGWC-15**	EPA 3005A	881825	EPA 6020B	881952
92751700017	**MCD-DGWC-19**	EPA 3005A	881825	EPA 6020B	881952
92751700018	**MCD-DGWC-2**	EPA 3005A	882511	EPA 6020B	882626
92751700019	**MCD-DGWC-8**	EPA 3005A	882511	EPA 6020B	882626

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751700020	**MCD-DGWC-11**	EPA 3005A	882511	EPA 6020B	882626
92751700021	**MCD-DGWC-22**	EPA 3005A	882511	EPA 6020B	882626
92751700022	**MCD-DGWC-14**	EPA 3005A	882511	EPA 6020B	882626
92751700023	**MCD-DGWC-17**	EPA 3005A	882511	EPA 6020B	882626
92751700024	**MCD-DGWC-48**	EPA 3005A	882694	EPA 6020B	882730
92751700025	**MCD-DGWC-10**	EPA 3005A	882694	EPA 6020B	882730
92751700026	**MCD-DGWC-9**	EPA 3005A	882694	EPA 6020B	882730
92751700001	**MCD-DGWC-21**	EPA 7470A	883897	EPA 7470A	884114
92751700002	**MCD-AP234-FB-2**	EPA 7470A	883897	EPA 7470A	884114
92751700003	**MCD-DGWC-5**	EPA 7470A	883897	EPA 7470A	884114
92751700004	**MCD-DGWC-4**	EPA 7470A	883897	EPA 7470A	884114
92751700005	**MCD-AP234-FB-3**	EPA 7470A	883897	EPA 7470A	884114
92751700006	**MCD-AP234-EB-3**	EPA 7470A	883897	EPA 7470A	884114
92751700007	**MCD-DGWC-12**	EPA 7470A	883897	EPA 7470A	884114
92751700008	**MCD-DGWC-13**	EPA 7470A	883897	EPA 7470A	884114
92751700009	**MCD-DGWC-20**	EPA 7470A	883897	EPA 7470A	884114
92751700010	**MCD-DGWC-23**	EPA 7470A	883897	EPA 7470A	884114
92751700011	**MCD-DGWC-42**	EPA 7470A	883897	EPA 7470A	884114
92751700012	**MCD-DGWC-47**	EPA 7470A	883897	EPA 7470A	884114
92751700013	**MCD-AP234-FD-3**	EPA 7470A	883897	EPA 7470A	884114
92751700014	**MCD-AP234-FD-2**	EPA 7470A	883897	EPA 7470A	884114
92751700015	**MCD-AP234-EB-2**	EPA 7470A	883897	EPA 7470A	884114
92751700016	**MCD-DGWC-15**	EPA 7470A	883897	EPA 7470A	884114
92751700017	**MCD-DGWC-19**	EPA 7470A	883897	EPA 7470A	884114
92751700018	**MCD-DGWC-2**	EPA 7470A	883897	EPA 7470A	884114
92751700019	**MCD-DGWC-8**	EPA 7470A	883897	EPA 7470A	884114
92751700020	**MCD-DGWC-11**	EPA 7470A	883897	EPA 7470A	884114
92751700021	**MCD-DGWC-22**	EPA 7470A	883900	EPA 7470A	884115
92751700022	**MCD-DGWC-14**	EPA 7470A	883900	EPA 7470A	884115
92751700023	**MCD-DGWC-17**	EPA 7470A	883900	EPA 7470A	884115
92751700024	**MCD-DGWC-48**	EPA 7470A	883900	EPA 7470A	884115
92751700025	**MCD-DGWC-10**	EPA 7470A	883900	EPA 7470A	884115
92751700026	**MCD-DGWC-9**	EPA 7470A	883900	EPA 7470A	884115
92751700001	**MCD-DGWC-21**	SM 2540C-2015	881518		
92751700002	**MCD-AP234-FB-2**	SM 2540C-2015	881518		
92751700003	**MCD-DGWC-5**	SM 2540C-2015	881824		
92751700004	**MCD-DGWC-4**	SM 2540C-2015	881824		
92751700005	**MCD-AP234-FB-3**	SM 2540C-2015	881824		
92751700006	**MCD-AP234-EB-3**	SM 2540C-2015	881824		
92751700007	**MCD-DGWC-12**	SM 2540C-2015	881821		
92751700008	**MCD-DGWC-13**	SM 2540C-2015	881821		
92751700009	**MCD-DGWC-20**	SM 2540C-2015	881821		
92751700010	**MCD-DGWC-23**	SM 2540C-2015	881821		
92751700011	**MCD-DGWC-42**	SM 2540C-2015	881821		
92751700012	**MCD-DGWC-47**	SM 2540C-2015	881821		
92751700013	**MCD-AP234-FD-3**	SM 2540C-2015	881821		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751700014	**MCD-AP234-FD-2**	SM 2540C-2015	881821		
92751700015	**MCD-AP234-EB-2**	SM 2540C-2015	881821		
92751700016	**MCD-DGWC-15**	SM 2540C-2015	881821		
92751700017	**MCD-DGWC-19**	SM 2540C-2015	881821		
92751700018	**MCD-DGWC-2**	SM 2540C-2015	881824		
92751700019	**MCD-DGWC-8**	SM 2540C-2015	881824		
92751700020	**MCD-DGWC-11**	SM 2540C-2015	882138		
92751700021	**MCD-DGWC-22**	SM 2540C-2015	882138		
92751700001	**MCD-DGWC-21**	SM 2320B-2011	881044		
92751700002	**MCD-AP234-FB-2**	SM 2320B-2011	881044		
92751700003	**MCD-DGWC-5**	SM 2320B-2011	881869		
92751700004	**MCD-DGWC-4**	SM 2320B-2011	881869		
92751700005	**MCD-AP234-FB-3**	SM 2320B-2011	881869		
92751700006	**MCD-AP234-EB-3**	SM 2320B-2011	881869		
92751700007	**MCD-DGWC-12**	SM 2320B-2011	881869		
92751700008	**MCD-DGWC-13**	SM 2320B-2011	881869		
92751700009	**MCD-DGWC-20**	SM 2320B-2011	881869		
92751700010	**MCD-DGWC-23**	SM 2320B-2011	881869		
92751700011	**MCD-DGWC-42**	SM 2320B-2011	881869		
92751700012	**MCD-DGWC-47**	SM 2320B-2011	881869		
92751700013	**MCD-AP234-FD-3**	SM 2320B-2011	881869		
92751700014	**MCD-AP234-FD-2**	SM 2320B-2011	881869		
92751700015	**MCD-AP234-EB-2**	SM 2320B-2011	881869		
92751700016	**MCD-DGWC-15**	SM 2320B-2011	881869		
92751700017	**MCD-DGWC-19**	SM 2320B-2011	881869		
92751700018	**MCD-DGWC-2**	SM 2320B-2011	882134		
92751700019	**MCD-DGWC-8**	SM 2320B-2011	882134		
92751700020	**MCD-DGWC-11**	SM 2320B-2011	882134		
92751700021	**MCD-DGWC-22**	SM 2320B-2011	882134		
92751700022	**MCD-DGWC-14**	SM 2320B-2011	883222		
92751700023	**MCD-DGWC-17**	SM 2320B-2011	883222		
92751700024	**MCD-DGWC-48**	SM 2320B-2011	883222		
92751700025	**MCD-DGWC-10**	SM 2320B-2011	883594		
92751700026	**MCD-DGWC-9**	SM 2320B-2011	883594		
92751700022	**MCD-DGWC-14**	SM 2540C-2015	882744		
92751700023	**MCD-DGWC-17**	SM 2540C-2015	882744		
92751700024	**MCD-DGWC-48**	SM 2540C-2015	882744		
92751700025	**MCD-DGWC-10**	SM 2540C-2015	882932		
92751700026	**MCD-DGWC-9**	SM 2540C-2015	882932		
92751700001	**MCD-DGWC-21**	SM 4500-S2D-2011	881394		
92751700002	**MCD-AP234-FB-2**	SM 4500-S2D-2011	881394		
92751700003	**MCD-DGWC-5**	SM 4500-S2D-2011	881720		
92751700004	**MCD-DGWC-4**	SM 4500-S2D-2011	881720		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751700005	**MCD-AP234-FB-3**	SM 4500-S2D-2011	881720		
92751700006	**MCD-AP234-EB-3**	SM 4500-S2D-2011	881720		
92751700007	**MCD-DGWC-12**	SM 4500-S2D-2011	881720		
92751700008	**MCD-DGWC-13**	SM 4500-S2D-2011	881720		
92751700009	**MCD-DGWC-20**	SM 4500-S2D-2011	881720		
92751700010	**MCD-DGWC-23**	SM 4500-S2D-2011	881720		
92751700011	**MCD-DGWC-42**	SM 4500-S2D-2011	881720		
92751700012	**MCD-DGWC-47**	SM 4500-S2D-2011	881720		
92751700013	**MCD-AP234-FD-3**	SM 4500-S2D-2011	881720		
92751700014	**MCD-AP234-FD-2**	SM 4500-S2D-2011	881720		
92751700015	**MCD-AP234-EB-2**	SM 4500-S2D-2011	881720		
92751700016	**MCD-DGWC-15**	SM 4500-S2D-2011	881720		
92751700017	**MCD-DGWC-19**	SM 4500-S2D-2011	881720		
92751700018	**MCD-DGWC-2**	SM 4500-S2D-2011	882376		
92751700019	**MCD-DGWC-8**	SM 4500-S2D-2011	882376		
92751700020	**MCD-DGWC-11**	SM 4500-S2D-2011	882376		
92751700021	**MCD-DGWC-22**	SM 4500-S2D-2011	882376		
92751700022	**MCD-DGWC-14**	SM 4500-S2D-2011	882377		
92751700023	**MCD-DGWC-17**	SM 4500-S2D-2011	882377		
92751700024	**MCD-DGWC-48**	SM 4500-S2D-2011	882377		
92751700025	**MCD-DGWC-10**	SM 4500-S2D-2011	882377		
92751700026	**MCD-DGWC-9**	SM 4500-S2D-2011	882377		
92751700001	**MCD-DGWC-21**	EPA 300.0 Rev 2.1 1993	881040		
92751700002	**MCD-AP234-FB-2**	EPA 300.0 Rev 2.1 1993	881040		
92751700003	**MCD-DGWC-5**	EPA 300.0 Rev 2.1 1993	881658		
92751700004	**MCD-DGWC-4**	EPA 300.0 Rev 2.1 1993	881658		
92751700005	**MCD-AP234-FB-3**	EPA 300.0 Rev 2.1 1993	881658		
92751700006	**MCD-AP234-EB-3**	EPA 300.0 Rev 2.1 1993	881658		
92751700007	**MCD-DGWC-12**	EPA 300.0 Rev 2.1 1993	881658		
92751700008	**MCD-DGWC-13**	EPA 300.0 Rev 2.1 1993	881658		
92751700009	**MCD-DGWC-20**	EPA 300.0 Rev 2.1 1993	881658		
92751700010	**MCD-DGWC-23**	EPA 300.0 Rev 2.1 1993	881658		
92751700011	**MCD-DGWC-42**	EPA 300.0 Rev 2.1 1993	881658		
92751700012	**MCD-DGWC-47**	EPA 300.0 Rev 2.1 1993	881658		
92751700013	**MCD-AP234-FD-3**	EPA 300.0 Rev 2.1 1993	881658		
92751700014	**MCD-AP234-FD-2**	EPA 300.0 Rev 2.1 1993	881658		
92751700015	**MCD-AP234-EB-2**	EPA 300.0 Rev 2.1 1993	881658		
92751700016	**MCD-DGWC-15**	EPA 300.0 Rev 2.1 1993	881674		
92751700017	**MCD-DGWC-19**	EPA 300.0 Rev 2.1 1993	881674		
92751700018	**MCD-DGWC-2**	EPA 300.0 Rev 2.1 1993	881917		
92751700019	**MCD-DGWC-8**	EPA 300.0 Rev 2.1 1993	881917		
92751700020	**MCD-DGWC-11**	EPA 300.0 Rev 2.1 1993	881917		
92751700021	**MCD-DGWC-22**	EPA 300.0 Rev 2.1 1993	881917		
92751700022	**MCD-DGWC-14**	EPA 300.0 Rev 2.1 1993	882290		
92751700023	**MCD-DGWC-17**	EPA 300.0 Rev 2.1 1993	882290		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Detection
Pace Project No.: 92751700

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751700024	**MCD-DGWC-48**	EPA 300.0 Rev 2.1 1993	882290		
92751700025	**MCD-DGWC-10**	EPA 300.0 Rev 2.1 1993	882291		
92751700026	**MCD-DGWC-9**	EPA 300.0 Rev 2.1 1993	882291		

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WO# : 92751700

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request I

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

92751700

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Detection	Pace Project Manager:	Bonnie Varg
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	
1	MCD-DGWC-21	WG	G	9/4/24	15:43		7	3		3		1					X	X	X	X	X	X					
2	MCD-AP234-FB-2	WQ	G	9/4/24	15:43		7	3		3		1					X	X	X	X	X	X					
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN / Comm 834 / WSP	09/05/24	0845	Comm - 834 / COURIER NOW	09/05/24	
	Comm 834 / Comm 09/05/24				9/5/24 1000	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92751700**

PM: BV Due Date: 09/20/24
CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: SG 4/5/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C): 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92751700

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 09/20/24
CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one) Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG0U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1		1																					
2		2	1		2		1		1																					
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92751700

PM: BV **Due Date: 09/19/24**

CLIENT: 92-GA Power

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Reques

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m

Section A	Section B	Section C
Required Client Information:	**Required Project Information:**	**Invoice Information:**
Company: Georgia Power - Coal Combustion Residuals	Report To: Joju Abraham	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: jabraham@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax:	Project Name: Plant McD AP-234 Detection	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency
State / Location
GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test	Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	
1	MCD-DGWC-5	WG	G	9/6/24	9:54		7	3		3		1						N	X	X	X	X	X	X				92751700 003
2	MCD-DGWC-4	WG	G	9/6/24	9:37		7	3		3		1						N	X	X	X	X	X	X				004
3	MCD-AP234-FB-3	WQ	G	9/6/24	10:15		7	3		3		1						N	X	X	X	X	X	X				005
4	MCD-AP234-EB-3	WQ	G	9/6/24	10:20		7	3		3		1						N	X	X	X	X	X	X				006
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN / [illegible]	9/6/24	1555	[signature]	9/6/24 1555	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92751700

PM: BV Due Date: 09/19/24

CLIENT: 92-GA Power

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec

Sample Condition Upon Receipt

Client Name: Ga power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/16/24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) -0.4

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP4N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	RP7U 50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	ISPIN	BP3B-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1	1																		X				
2		2	1				1	1																		X				
3		2	1				1	1																		X				
4		2	1				1	1																		X				
5																														
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11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92751700

PM: BV Due Date: 09/19/24

CLIENT: 92-GA Power

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Reques

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields n

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Detection	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92751700	
	Requested Analysis Filtered (Y/N)															N	N	N	N	N	N						
1	MCD-DGWC-12	WG	G	9/5/24	14:58		9	3		5		1				X	X	X	X	X	X					007	EXTRA RADS
2	MCD-DGWC-13	WG	G	9/5/24	11:48		7	3		3		1				X	X	X	X	X	X					008	
3	MCD-DGWC-20	WG	G	9/5/24	13:12		7	3		3		1				X	X	X	X	X	X					009	
4	MCD-DGWC-23	WG	G	9/5/24	12:05		7	3		3		1				X	X	X	X	X	X					010	
5	MCD-DGWC-42	WG	G	9/5/24	15:53		7	3		3		1				X	X	X	X	X	X					011	
6	MCD-DGWC-47	WG	G	9/5/24	15:21		7	3		3		1				X	X	X	X	X	X					012	
7	MCD-AP234-FD-3	WG	G	9/5/24	--		7	3		3		1				X	X	X	X	X	X					013	
8	MCD-AP234-FD-2	WG	G	9/5/24	--		7	3		3		1				X	X	X	X	X	X					014	
9	MCD-AP234-EB-2	WG	G	9/5/24	13:00		7	3		3		1				X	X	X	X	X	X					015	
10	MCD-DGWC-15	WG	G	9/5/24	10:03		7	3		3		1				X	X	X	X	X	X					016	
11	MCD-DGWC-19	WG	G	9/5/24	10:15		9	3		5		1				X	X	X	X	X	X					017	EXTRA RADS
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	Mark Manning / NAP	9/6/24	1555		9/6/24	1555

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92751700

PM: BV **Due Date: 09/19/24**

CLIENT: 92-GA Power

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me

Sample Condition Upon Receipt

Client Name: GA power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:___ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/6/24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 236 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.7 Correction Factor: Add/Subtract (°C) -2.4

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Daltrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/E2 (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP1U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP2N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	VGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BG1U	BP3N-250 mL Plastic (NH2)2SO4 (8.3-9.7)	AGBU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				X	1																		4				
2		2	1				X	1																		2				
3		2	1				1	1																		2				
4		2	1				1	1																		2				
5		2	1				1	1																		2				
6		2	1				1	1																		2				
7		2	1				1	1																		2				
8		2	1				1	1																		2				
9		2	1				1	1																		2				
10		2	1				1	1																		2				
11		2	1				1	1	X																	4				
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Detection	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	State / Location
	GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	Analyses Test: *App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury	Residual Chlorine (Y/N)	9275170
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N	N		
1	MCD-DGWC-2	WG	C	9/9/24	16:06		7	3		3		1					X	X	X	X	X	X	X		
2	MCD-DGWC-8	WG	G	9/9/24	12:03		7	3		3		1					X	X	X	X	X	X	X		
3	MCD-DGWC-11	WG	G	9/9/24	15:10		7	3		3		1					X	X	X	X	X	X	X		
4	MCD-DGWC-22	WG	G	9/9/24	9:52		7	3		3		1					X	X	X	X	X	X	X		
5																								
6																								
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN/Pace/WP	9/10/24	930	Chase Lawton / CONTRACTOR	9/10/24	
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl	Chase Lawton/CMW	9/10/24			9/10/24	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/10/24 aw

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☐ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) 0.

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

lient GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP/N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1	1																						
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Joju Abraham	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: jabraham@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax:	Project Name: Plant McD AP-234 Detection	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency
State / Location
GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Other OT
Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): *App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury			Residual Chlorine (Y/N)	92751700
																Y/N	N	N	N	N	N	N	N				
1	MCD-DGWC-14	WG	G	9/10/24	10:09		7	3		3		1					X	X	X	X	X	X	X				
2	MCD-DGWC-17	WG	G	9/10/24	12:48		7	3		3		1					X	X	X	X	X	X	X				
3	MCD-DGWC-48	WG	G	9/10/24	13:07		7	3		3		1					X	X	X	X	X	X	X				
4	MCD-DGWC-10	WG	G	9/11/24	10:35		7	3		3		1					X	X	X	X	X	X	X				
5	MCD-DGWC-9	WG	G	9/11/24	10:11		7	3		3		1					X	X	X	X	X	X	X				
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS			
Task Code = MCD-CCR-ASSMT-2024S2	Mark Manry / WSP	9/11/24	1555		9/11/24				
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl									

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 9/11/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.0 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 4.9

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

#1 Sample MCD-B-101D listed twice on COC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPIN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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12		2	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 08, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2024 and September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92751698001	**MCD-DGWC-21**	Water	09/04/24 15:43	09/05/24 10:00
92751698002	**MCD-AP234-FB-2**	Water	09/04/24 15:43	09/05/24 10:00
92751698003	**MCD-DGWC-5**	Water	09/06/24 09:54	09/06/24 15:55
92751698004	**MCD-DGWC-4**	Water	09/06/24 09:37	09/06/24 15:55
92751698005	**MCD-AP234-FB-3**	Water	09/06/24 10:15	09/06/24 15:55
92751698006	**MCD-AP234-EB-3**	Water	09/06/24 10:20	09/06/24 15:55
92751698007	**MCD-DGWC-12**	Water	09/05/24 14:58	09/06/24 15:55
92751698008	**MCD-DGWC-13**	Water	09/05/24 11:48	09/06/24 15:55
92751698009	**MCD-DGWC-20**	Water	09/05/24 13:12	09/06/24 15:55
92751698010	**MCD-DGWC-23**	Water	09/05/24 12:05	09/06/24 15:55
92751698011	**MCD-DGWC-42**	Water	09/05/24 15:53	09/06/24 15:55
92751698012	**MCD-DGWC-47**	Water	09/05/24 15:21	09/06/24 15:55
92751698013	**MCD-AP234-FD-3**	Water	09/05/24 00:00	09/06/24 15:55
92751698014	**MCD-AP234-FD-2**	Water	09/05/24 00:00	09/06/24 15:55
92751698015	**MCD-AP234-EB-2**	Water	09/05/24 13:00	09/06/24 15:55
92751698016	**MCD-DGWC-15**	Water	09/05/24 10:03	09/06/24 15:55
92751698017	**MCD-DGWC-19**	Water	09/05/24 10:15	09/06/24 15:55
92751698018	**MCD-DGWC-2**	Water	09/09/24 16:06	09/10/24 08:50
92751698019	**MCD-DGWC-8**	Water	09/09/24 12:03	09/10/24 08:50
92751698020	**MCD-DGWC-11**	Water	09/09/24 15:10	09/10/24 08:50
92751698021	**MCD-DGWC-22**	Water	09/09/24 09:52	09/10/24 08:50
92751698022	**MCD-DGWC-14**	Water	09/10/24 10:09	09/11/24 15:55
92751698023	**MCD-DGWC-17**	Water	09/10/24 12:48	09/11/24 15:55
92751698024	**MCD-DGWC-48**	Water	09/10/24 13:07	09/11/24 15:55
92751698025	**MCD-DGWC-10**	Water	09/11/24 10:35	09/11/24 15:55
92751698026	**MCD-DGWC-9**	Water	09/11/24 10:11	09/11/24 15:55

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92751698001	**MCD-DGWC-21**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698002	**MCD-AP234-FB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698003	**MCD-DGWC-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698004	**MCD-DGWC-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698005	**MCD-AP234-FB-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698006	**MCD-AP234-EB-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698007	**MCD-DGWC-12**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698008	**MCD-DGWC-13**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698009	**MCD-DGWC-20**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698010	**MCD-DGWC-23**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698011	**MCD-DGWC-42**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698012	**MCD-DGWC-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698013	**MCD-AP234-FD-3**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698014	**MCD-AP234-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698015	**MCD-AP234-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698016	**MCD-DGWC-15**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698017	**MCD-DGWC-19**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698018	**MCD-DGWC-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698019	**MCD-DGWC-8**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698020	**MCD-DGWC-11**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698021	**MCD-DGWC-22**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698022	**MCD-DGWC-14**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698023	**MCD-DGWC-17**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698024	**MCD-DGWC-48**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751698025	**MCD-DGWC-10**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
92751698026	**MCD-DGWC-9**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-21 **Lab ID: 92751698001** Collected: 09/04/24 15:43 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.138U ± 0.123 (0.229) C:83% T:NA**	pCi/L	09/30/24 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.288U ± 0.484 (1.05) C:82% T:81%**	pCi/L	09/23/24 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.426U ± 0.607 (1.28)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-AP234-FB-2 **Lab ID: 92751698002** Collected: 09/04/24 15:43 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0847U ± 0.113 (0.245) C:92% T:NA**	pCi/L	09/30/24 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.134U ± 0.437 (0.979) C:83% T:84%**	pCi/L	09/23/24 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.219U ± 0.550 (1.22)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-5 **Lab ID: 92751698003** Collected: 09/06/24 09:54 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.168U ± 0.123 (0.218) C:94% T:NA**	pCi/L	09/30/24 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.544U ± 0.367 (0.692) C:85% T:81%**	pCi/L	09/26/24 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.712U ± 0.490 (0.910)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-4 **Lab ID: 92751698004** Collected: 09/06/24 09:37 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.291 ± 0.151 (0.215) C:87% T:NA**	pCi/L	09/30/24 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.42 ± 0.515 (0.717) C:83% T:80%**	pCi/L	09/26/24 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.71 ± 0.666 (0.932)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-AP234-FB-3 **Lab ID: 92751698005** Collected: 09/06/24 10:15 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0345U ± 0.0866 (0.207) C:95% T:NA**	pCi/L	09/30/24 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.258U ± 0.370 (0.795) C:84% T:83%**	pCi/L	09/26/24 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.293U ± 0.457 (1.00)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-AP234-EB-3 **Lab ID: 92751698006** Collected: 09/06/24 10:20 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0782U ± 0.116 (0.255) C:92% T:NA**	pCi/L	09/30/24 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.535U ± 0.356 (0.672) C:81% T:89%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.613U ± 0.472 (0.927)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-12 **Lab ID: 92751698007** Collected: 09/05/24 14:58 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00191U ± 0.108 (0.284) C:79% T:NA**	pCi/L	09/30/24 09:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.933 ± 0.427 (0.687) C:84% T:83%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.935U ± 0.535 (0.971)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-13 **Lab ID: 92751698008** Collected: 09/05/24 11:48 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.355 ± 0.168 (0.226) C:82% T:NA**	pCi/L	09/30/24 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.436U ± 0.351 (0.689) C:81% T:84%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.791U ± 0.519 (0.915)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-20 **Lab ID: 92751698009** Collected: 09/05/24 13:12 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.394 ± 0.166 (0.194) C:90% T:NA**	pCi/L	09/30/24 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.16 ± 0.535 (0.896) C:82% T:72%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.55 ± 0.701 (1.09)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-23 **Lab ID: 92751698010** Collected: 09/05/24 12:05 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.218 ± 0.133 (0.207) C:88% T:NA**	pCi/L	09/30/24 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.906 ± 0.441 (0.742) C:79% T:83%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12 ± 0.574 (0.949)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-42 **Lab ID: 92751698011** Collected: 09/05/24 15:53 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0848U ± 0.114 (0.246) C:87% T:NA**	pCi/L	09/30/24 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.566U ± 0.417 (0.809) C:77% T:79%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.651U ± 0.531 (1.06)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-47 **Lab ID: 92751698012** Collected: 09/05/24 15:21 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.281 ± 0.157 (0.251) C:86% T:NA**	pCi/L	09/30/24 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.64 ± 0.551 (0.731) C:81% T:79%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.92 ± 0.708 (0.982)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-AP234-FD-3 **Lab ID: 92751698013** Collected: 09/05/24 00:00 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.259 ± 0.146 (0.229) C:88% T:NA**	pCi/L	09/30/24 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.348U ± 0.348 (0.714) C:80% T:83%**	pCi/L	09/26/24 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.607U ± 0.494 (0.943)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-AP234-FD-2 **Lab ID: 92751698014** Collected: 09/05/24 00:00 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.260 ± 0.130 (0.163) C:89% T:NA**	pCi/L	09/30/24 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.57 ± 0.538 (0.735) C:79% T:83%**	pCi/L	09/26/24 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.83 ± 0.668 (0.898)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-AP234-EB-2 **Lab ID: 92751698015** Collected: 09/05/24 13:00 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0484U ± 0.0780 (0.172) C:93% T:NA**	pCi/L	09/30/24 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.536U ± 0.414 (0.817) C:81% T:82%**	pCi/L	09/26/24 11:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.584U ± 0.492 (0.989)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-15 **Lab ID: 92751698016** Collected: 09/05/24 10:03 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0864U ± 0.109 (0.230) C:83% T:NA**	pCi/L	09/30/24 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.629U ± 0.478 (0.948) C:76% T:77%**	pCi/L	09/26/24 11:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.715U ± 0.587 (1.18)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-19 **Lab ID: 92751698017** Collected: 09/05/24 10:15 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0762U ± 0.0953 (0.200) C:92% T:NA**	pCi/L	09/30/24 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.289U ± 0.330 (0.693) C:85% T:83%**	pCi/L	09/26/24 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.365U ± 0.425 (0.893)**	pCi/L	09/30/24 16:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-2 **Lab ID: 92751698018** Collected: 09/09/24 16:06 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.395 ± 0.176 (0.234) C:85% T:NA**	pCi/L	10/02/24 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.01 ± 0.423 (0.665) C:78% T:86%**	pCi/L	09/30/24 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 0.599 (0.899)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-8 **Lab ID: 92751698019** Collected: 09/09/24 12:03 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0997U ± 0.103 (0.204) C:92% T:NA**	pCi/L	10/02/24 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.02 ± 0.494 (0.868) C:82% T:81%**	pCi/L	09/30/24 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12 ± 0.597 (1.07)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-11 **Lab ID: 92751698020** Collected: 09/09/24 15:10 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.153U ± 0.132 (0.255) C:84% T:NA**	pCi/L	10/02/24 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.658U ± 0.453 (0.881) C:86% T:85%**	pCi/L	09/26/24 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.811U ± 0.585 (1.14)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-22 **Lab ID: 92751698021** Collected: 09/09/24 09:52 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.207U ± 0.144 (0.256) C:85% T:NA**	pCi/L	10/02/24 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.538U ± 0.471 (0.957) C:83% T:84%**	pCi/L	09/26/24 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.745U ± 0.615 (1.21)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-14 **Lab ID: 92751698022** Collected: 09/10/24 10:09 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.106U ± 0.113 (0.230) C:85% T:NA**	pCi/L	10/02/24 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.613U ± 0.415 (0.800) C:80% T:88%**	pCi/L	09/30/24 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.719U ± 0.528 (1.03)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-17 **Lab ID: 92751698023** Collected: 09/10/24 12:48 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00761U ± 0.0793 (0.207) C:94% T:NA**	pCi/L	10/02/24 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.257U ± 0.400 (0.866) C:76% T:90%**	pCi/L	09/30/24 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.265U ± 0.479 (1.07)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-48 **Lab ID: 92751698024** Collected: 09/10/24 13:07 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0956U ± 0.122 (0.260) C:83% T:NA**	pCi/L	10/02/24 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.74 ± 0.562 (0.746) C:82% T:82%**	pCi/L	09/30/24 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.84 ± 0.684 (1.01)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-10 **Lab ID: 92751698025** Collected: 09/11/24 10:35 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.297 ± 0.145 (0.200) C:93% T:NA**	pCi/L	10/02/24 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.30 ± 0.665 (0.749) C:73% T:85%**	pCi/L	09/30/24 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.60 ± 0.810 (0.949)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Sample: MCD-DGWC-9 **Lab ID: 92751698026** Collected: 09/11/24 10:11 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.291U ± 0.265 (0.502) C:95% T:NA**	pCi/L	10/02/24 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.968 ± 0.503 (0.905) C:74% T:90%**	pCi/L	09/30/24 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.26U ± 0.768 (1.41)**	pCi/L	10/03/24 15:21	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

QC Batch: 695873 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751698008, 92751698009, 92751698010, 92751698011, 92751698012, 92751698013, 92751698014, 92751698015, 92751698016, 92751698017

METHOD BLANK: 3389000 Matrix: Water
Associated Lab Samples: 92751698008, 92751698009, 92751698010, 92751698011, 92751698012, 92751698013, 92751698014, 92751698015, 92751698016, 92751698017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0102 ± 0.0929 (0.242) C:82% T:NA	pCi/L	09/30/24 07:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

QC Batch: 696334 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751698018, 92751698019, 92751698020, 92751698021, 92751698022, 92751698023, 92751698024, 92751698025, 92751698026

METHOD BLANK: 3391001 Matrix: Water
Associated Lab Samples: 92751698018, 92751698019, 92751698020, 92751698021, 92751698022, 92751698023, 92751698024, 92751698025, 92751698026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0966 ± 0.111 (0.228) C:89% T:NA	pCi/L	10/02/24 08:40	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

QC Batch: 697040 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751698018, 92751698019, 92751698022, 92751698023, 92751698024, 92751698025, 92751698026

METHOD BLANK: 3394381 Matrix: Water
Associated Lab Samples: 92751698018, 92751698019, 92751698022, 92751698023, 92751698024, 92751698025, 92751698026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.181 ± 0.292 (0.633) C:82% T:92%	pCi/L	09/30/24 15:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

QC Batch: 695863 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751698003, 92751698004, 92751698005, 92751698006, 92751698007, 92751698008, 92751698009, 92751698010, 92751698011, 92751698012, 92751698013, 92751698014, 92751698015, 92751698016, 92751698017

METHOD BLANK: 3388978 Matrix: Water
Associated Lab Samples: 92751698003, 92751698004, 92751698005, 92751698006, 92751698007, 92751698008, 92751698009, 92751698010, 92751698011, 92751698012, 92751698013, 92751698014, 92751698015, 92751698016, 92751698017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.212 ± 0.332 (0.718) C:83% T:84%	pCi/L	09/26/24 14:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

QC Batch: 697039
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751698020, 92751698021

METHOD BLANK: 3394379
Matrix: Water
Associated Lab Samples: 92751698020, 92751698021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0489 ± 0.301 (0.693) C:88% T:88%	pCi/L	09/26/24 15:01	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

QC Batch: 695870 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751698001, 92751698002, 92751698003, 92751698004, 92751698005, 92751698006, 92751698007

METHOD BLANK: 3388999 Matrix: Water
Associated Lab Samples: 92751698001, 92751698002, 92751698003, 92751698004, 92751698005, 92751698006, 92751698007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0274 ± 0.0932 (0.274) C:73% T:NA	pCi/L	09/30/24 09:02	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

QC Batch: 695548
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751698001, 92751698002

METHOD BLANK: 3387259
Matrix: Water
Associated Lab Samples: 92751698001, 92751698002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.175 ± 0.297 (0.647) C:85% T:86%	pCi/L	09/23/24 15:11	

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QUALIFIERS

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751698001	**MCD-DGWC-21**	EPA 9315	695870		
92751698002	**MCD-AP234-FB-2**	EPA 9315	695870		
92751698003	**MCD-DGWC-5**	EPA 9315	695870		
92751698004	**MCD-DGWC-4**	EPA 9315	695870		
92751698005	**MCD-AP234-FB-3**	EPA 9315	695870		
92751698006	**MCD-AP234-EB-3**	EPA 9315	695870		
92751698007	**MCD-DGWC-12**	EPA 9315	695870		
92751698008	**MCD-DGWC-13**	EPA 9315	695873		
92751698009	**MCD-DGWC-20**	EPA 9315	695873		
92751698010	**MCD-DGWC-23**	EPA 9315	695873		
92751698011	**MCD-DGWC-42**	EPA 9315	695873		
92751698012	**MCD-DGWC-47**	EPA 9315	695873		
92751698013	**MCD-AP234-FD-3**	EPA 9315	695873		
92751698014	**MCD-AP234-FD-2**	EPA 9315	695873		
92751698015	**MCD-AP234-EB-2**	EPA 9315	695873		
92751698016	**MCD-DGWC-15**	EPA 9315	695873		
92751698017	**MCD-DGWC-19**	EPA 9315	695873		
92751698018	**MCD-DGWC-2**	EPA 9315	696334		
92751698019	**MCD-DGWC-8**	EPA 9315	696334		
92751698020	**MCD-DGWC-11**	EPA 9315	696334		
92751698021	**MCD-DGWC-22**	EPA 9315	696334		
92751698022	**MCD-DGWC-14**	EPA 9315	696334		
92751698023	**MCD-DGWC-17**	EPA 9315	696334		
92751698024	**MCD-DGWC-48**	EPA 9315	696334		
92751698025	**MCD-DGWC-10**	EPA 9315	696334		
92751698026	**MCD-DGWC-9**	EPA 9315	696334		
92751698001	**MCD-DGWC-21**	EPA 9320	695548		
92751698002	**MCD-AP234-FB-2**	EPA 9320	695548		
92751698003	**MCD-DGWC-5**	EPA 9320	695863		
92751698004	**MCD-DGWC-4**	EPA 9320	695863		
92751698005	**MCD-AP234-FB-3**	EPA 9320	695863		
92751698006	**MCD-AP234-EB-3**	EPA 9320	695863		
92751698007	**MCD-DGWC-12**	EPA 9320	695863		
92751698008	**MCD-DGWC-13**	EPA 9320	695863		
92751698009	**MCD-DGWC-20**	EPA 9320	695863		
92751698010	**MCD-DGWC-23**	EPA 9320	695863		
92751698011	**MCD-DGWC-42**	EPA 9320	695863		
92751698012	**MCD-DGWC-47**	EPA 9320	695863		
92751698013	**MCD-AP234-FD-3**	EPA 9320	695863		
92751698014	**MCD-AP234-FD-2**	EPA 9320	695863		
92751698015	**MCD-AP234-EB-2**	EPA 9320	695863		
92751698016	**MCD-DGWC-15**	EPA 9320	695863		
92751698017	**MCD-DGWC-19**	EPA 9320	695863		
92751698018	**MCD-DGWC-2**	EPA 9320	697040		
92751698019	**MCD-DGWC-8**	EPA 9320	697040		
92751698020	**MCD-DGWC-11**	EPA 9320	697039		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Detection-RAD
Pace Project No.: 92751698

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751698021	**MCD-DGWC-22**	EPA 9320	697039		
92751698022	**MCD-DGWC-14**	EPA 9320	697040		
92751698023	**MCD-DGWC-17**	EPA 9320	697040		
92751698024	**MCD-DGWC-48**	EPA 9320	697040		
92751698025	**MCD-DGWC-10**	EPA 9320	697040		
92751698026	**MCD-DGWC-9**	EPA 9320	697040		
92751698001	**MCD-DGWC-21**	Total Radium Calculation	699390		
92751698002	**MCD-AP234-FB-2**	Total Radium Calculation	699390		
92751698003	**MCD-DGWC-5**	Total Radium Calculation	699390		
92751698004	**MCD-DGWC-4**	Total Radium Calculation	699390		
92751698005	**MCD-AP234-FB-3**	Total Radium Calculation	699390		
92751698006	**MCD-AP234-EB-3**	Total Radium Calculation	699390		
92751698007	**MCD-DGWC-12**	Total Radium Calculation	699390		
92751698008	**MCD-DGWC-13**	Total Radium Calculation	699401		
92751698009	**MCD-DGWC-20**	Total Radium Calculation	699401		
92751698010	**MCD-DGWC-23**	Total Radium Calculation	699401		
92751698011	**MCD-DGWC-42**	Total Radium Calculation	699401		
92751698012	**MCD-DGWC-47**	Total Radium Calculation	699401		
92751698013	**MCD-AP234-FD-3**	Total Radium Calculation	699401		
92751698014	**MCD-AP234-FD-2**	Total Radium Calculation	699401		
92751698015	**MCD-AP234-EB-2**	Total Radium Calculation	699401		
92751698016	**MCD-DGWC-15**	Total Radium Calculation	699401		
92751698017	**MCD-DGWC-19**	Total Radium Calculation	699401		
92751698018	**MCD-DGWC-2**	Total Radium Calculation	700413		
92751698019	**MCD-DGWC-8**	Total Radium Calculation	700413		
92751698020	**MCD-DGWC-11**	Total Radium Calculation	700413		
92751698021	**MCD-DGWC-22**	Total Radium Calculation	700413		
92751698022	**MCD-DGWC-14**	Total Radium Calculation	700413		
92751698023	**MCD-DGWC-17**	Total Radium Calculation	700413		
92751698024	**MCD-DGWC-48**	Total Radium Calculation	700413		
92751698025	**MCD-DGWC-10**	Total Radium Calculation	700413		
92751698026	**MCD-DGWC-9**	Total Radium Calculation	700413		

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WO# : 92751698

92751698

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mus

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Detection	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide			Residual Chlorine (Y/N)	
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N				
1	MCD-DGWC-21	WG	G	9/4/24	15:43		7	3		3		1					X	X	X	X	X	X				
2	MCD-AP234-FB-2	WQ	G	9/4/24	15:43		7	3		3		1					X	X	X	X	X	X				
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	HABERMANN / SynTerra/WSP	09/05/24	0845	Conn. 834 / COURIER NOW	09/05/24	
	Conn 834 CNOW	09/05/24			9/5/24 1020	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92751698**

PM: BV Due Date: 09/26/24
CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: SG 9/5/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C): 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92751698

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 09/26/24
CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one) Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1	\	2	1		2	\	1	\	1			\		\	\	\											\	\		
2	\	2	1		2	\	1	\	1			\		\	\	\											\	\		
3	\					\		\				\		\	\	\											\	\		
4	\					\		\				\		\	\	\											\	\		
5	\					\		\				\		\	\	\											\	\		
6	\					\		\				\		\	\	\											\	\		
7	\					\		\				\		\	\	\											\	\		
8	\					\		\				\		\	\	\											\	\		
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10	\					\		\				\		\	\	\											\	\		
11	\					\		\				\		\	\	\											\	\		
12	\					\		\				\		\	\	\											\	\		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO# : 92751698

PM: BV **Due Date: 09/26/24**

CLIENT: 92-GA Power

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Reque

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Detection	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92751698
																Y/N		N	N	N	N	N	N		
1	MCD-DGWC-5	WG	G	9/6/24	9:54		7	3		3		1						X	X	X	X	X	X		003
2	MCD-DGWC-4	WG	G	9/6/24	9:37		7	3		3		1						X	X	X	X	X	X		004
3	MCD-AP234-FB-3	WQ	G	9/6/24	10:15		7	3		3		1						X	X	X	X	X	X		005
4	MCD-AP234-EB-3	WQ	G	9/6/24	10:20		7	3		3		1						X	X	X	X	X	X		006
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-202452	MARK MANN / [illegible]	9/6/24	1555	[signature]	9/6/24 1555	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92751698

PM: BV Due Date: 09/26/24

CLIENT: 92-GA Power

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/6/24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.7

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/E2 (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	VG9U-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber NH4Cl (N/A) (CI-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	ISOIN	BP3B-250 mL Plastic (NH4)2SO4 (9.3-6.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1																			2				
2		2	1																							2				
3		2	1																							2				
4		2	1																							2				
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO# : 92751698

PM: BV Due Date: 09/26/24
CLIENT: 92-GA Power

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Reque

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Detection	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.MCD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92751698
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS							Requested Analysis Filtered (Y/N)									N	N	N	N	N	N					
1	MCD-DGWC-12	WG	G	9/5/24	14:58		9	3		5		1					X	X	X	X	X	X					007 EXTRA RADS
2	MCD-DGWC-13	WG	G	9/5/24	11:48		7	3		3		1					X	X	X	X	X	X					008
3	MCD-DGWC-20	WG	G	9/5/24	13:12		7	3		3		1					X	X	X	X	X	X					009
4	MCD-DGWC-23	WG	G	9/5/24	12:05		7	3		3		1					X	X	X	X	X	X					010
5	MCD-DGWC-42	WG	G	9/5/24	15:53		7	3		3		1					X	X	X	X	X	X					011
6	MCD-DGWC-47	WG	G	9/5/24	15:21		7	3		3		1					X	X	X	X	X	X					012
7	MCD-AP234-FD-3	WG	G	9/5/24	--		7	3		3		1					X	X	X	X	X	X					013
8	MCD-AP234-FD-2	WG	G	9/5/24	--		7	3		3		1					X	X	X	X	X	X					014
9	MCD-AP234-EB-2	WG	G	9/5/24	13:00		7	3		3		1					X	X	X	X	X	X					015
10	MCD-DGWC-15	WG	G	9/5/24	10:03		7	3		3		1					X	X	X	X	X	X					016
11	MCD-DGWC-19	WG	G	9/5/24	10:15		9	3		5		1					X	X	X	X	X	X					017 EXTRA RADS
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANNING/NAP	9/6/24	1555		9/6/24	1555

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92751698

PM: BV **Due Date: 09/26/24**

CLIENT: 92-GA Power

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/6/24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 236

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) -0.4

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	VGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG1U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3N	BP3N-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1																								4			
2		2	1																								2			
3		2	1																								2			
4		2	1																								2			
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6		2	1																								2			
7		2	1																								2			
8		2	1																								2			
9		2	1																								2			
10		2	1																								2			
11		2	1																								4			
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road
	Atlanta, GA 30339
Email:	jabraham@southernco.com
Phone: (470) 620-6176	Fax:
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To:	Joju Abraham
Copy To:	WSP
Purchase Order #:	
Project Name:	Plant McD AP-234 Detection
Project #:	31406440.McD23

Section C
Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	

Regulatory Agency

State / Location
GA

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	*App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury			Residual Chlorine (Y/N)	92751698
																N	N	N	N	N	N	N	N			
1	MCD-DGWC-2	WG	G	9/9/24	16:06		7	3		3		1					X	X	X	X	X	X	X				
2	MCD-DGWC-8	WG	G	9/9/24	12:03		7	3		3		1					X	X	X	X	X	X	X				
3	MCD-DGWC-11	WG	G	9/9/24	15:10		7	3		3		1					X	X	X	X	X	X	X				
4	MCD-DGWC-22	WG	G	9/9/24	9:52		7	3		3		1					X	X	X	X	X	X	X				
5																											
6																											
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10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN / [illegible] WSP	9/10/24	850	Chase Lawler / COURIER-NON	9/10/24	
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl	Chase Lawler CPrew	9/10/24			9/10/24	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: CA Bower

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/10/24 aw

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☐ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) 0.

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden☐ Greenwood ☐ Huntersville ☐ Raleigh☐ Mechanicsville☐ Atlanta☒ Kernersville☐

lient GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1 ✓	1 ✓																						
2		2	1		2		1 ✓	1 ✓																						
3		2	1		2		1 ✓	1 ✓																						
4		2	1		2		1 ✓	1 ✓																						
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

lote: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e.)ut of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Delection	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	*App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury			Residual Chlorine (Y/N)	92751698
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	N				
1	MCD-DGWC-14	WG	G	9/10/24	10:09		7	3		3		1					X	X	X	X	X	X	X				
2	MCD-DGWC-17	WG	G	9/10/24	12:48		7	3		3		1					X	X	X	X	X	X	X				
3	MCD-DGWC-48	WG	G	9/10/24	13:07		7	3		3		1					X	X	X	X	X	X	X				
4	MCD-DGWC-10	WG	G	9/11/24	10:35		7	3		3		1					X	X	X	X	X	X	X				
5	MCD-DGWC-9	WG	G	9/11/24	10:11		7	3		3		1					X	X	X	X	X	X	X				
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS			
Task Code = MCD-CCR-ASSMT-2024S2	Mark Manry / WSP	9/11/24	1555		9/11/24				
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl									

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: G.A. Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 9/11/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.0 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 4.9

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

#5 Sample MCD-B-101D listed twice on CoC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPIN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1																							
2		2	1		2		1																							
3		2	1		2		1																							
4		2	1		2		1																							
5		2	1		2		1																							
6		2	1		2		1																							
7		2	1		2		1																							
8		2	1		2		1																							
9		2	1		2		1																							
10		2	1		2		1																							
11		2	1		2		1																							
12		2	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1	1																						
2																														
3																														
4																														
5																														
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7																														
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12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/18/2024
Worklist:	81266
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3387259
MB concentration:	0.175
M/B 2 Sigma CSU:	0.297
MB MDC:	0.647
MB Numerical Performance Indicator:	1.16
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81266	LCSD81266
Count Date:	9/26/2024	9/26/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.156	35.156
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.817
Target Conc. (pCi/L, g, F):	4.291	4.302
Uncertainty (Calculated):	0.210	0.211
Result (pCi/L, g, F):	4.710	4.548
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.053	1.013
Numerical Performance Indicator:	0.76	0.47
Percent Recovery:	109.76%	105.73%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81266	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81266	
Sample Result (pCi/L, g, F):	4.710	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.053	
Sample Duplicate Result (pCi/L, g, F):	4.548	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.013	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.217	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.74%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

SLC 9/27/24

VAL
9/27/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/20/2024
Worklist:	81290
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3388978
MB concentration:	0.212
M/B 2 Sigma CSU:	0.332
MB MDC:	0.718
MB Numerical Performance Indicator:	1.26
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81290	**LCSD81290**
Count Date:	9/26/2024	9/26/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.155	35.155
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.816
Target Conc. (pCi/L, g, F):	4.290	4.309
Uncertainty (Calculated):	0.210	0.211
Result (pCi/L, g, F):	3.387	3.971
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.823	0.923
Numerical Performance Indicator:	-2.08	-0.70
Percent Recovery:	78.95%	92.16%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81290	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81290	
Sample Result (pCi/L, g, F):	3.387	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.823	
Sample Duplicate Result (pCi/L, g, F):	3.971	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.923	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.925	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.44%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
9/27/24

SLC 9/27/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/27/2024
Worklist:	81393
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3394379
MB concentration:	0.049
M/B 2 Sigma CSU:	0.301
MB MDC:	0.693
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81393	LCSD81393
Count Date:	10/1/2024	10/1/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.098	35.098
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.822	0.820
Target Conc. (pCi/L, g, F):	4.271	4.281
Uncertainty (Calculated):	0.209	0.210
Result (pCi/L, g, F):	3.623	5.102
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.883	1.200
Numerical Performance Indicator:	-1.40	1.32
Percent Recovery:	84.83%	119.16%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS81393	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81393	
Sample Result (pCi/L, g, F):	3.623	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.883	
Sample Duplicate Result (pCi/L, g, F):	5.102	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.200	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.945	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	33.66%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL 10/2/24

DLW 10/2/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	9/23/2024
Worklist:	81394
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3394381
MB concentration:	0.181
M/B 2 Sigma CSU:	0.292
MB MDC:	0.633
MB Numerical Performance Indicator:	1.22
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81394	LCSD81394
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.109	35.109
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.819
Target Conc. (pCi/L, g, F):	4.294	4.288
Uncertainty (Calculated):	0.210	0.210
Result (pCi/L, g, F):	4.321	3.326
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.992	0.853
Numerical Performance Indicator:	0.05	-2.15
Percent Recovery:	100.64%	77.55%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81394	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81394	
Sample Result (pCi/L, g, F):	4.321	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.992	
Sample Duplicate Result (pCi/L, g, F):	3.326	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.853	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.492	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.91%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10/1/24
DLW 10/2/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/19/2024
Worklist:	81293
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3388999
MB concentration:	-0.027
M/B 2 Sigma CSU:	0.093
MB MDC:	0.274
MB Numerical Performance Indicator:	-0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81293	LCSD81293
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.501
Target Conc. (pCi/L, g, F):	4.970	4.994
Uncertainty (Calculated):	0.234	0.235
Result (pCi/L, g, F):	5.287	5.017
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.932	0.881
Numerical Performance Indicator:	0.65	0.05
Percent Recovery:	106.37%	100.45%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81293	92752186001
Duplicate Sample I.D.	LCSD81293	92752186001DUP
Sample Result (pCi/L, g, F):	5.287	1.064
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.932	0.283
Sample Duplicate Result (pCi/L, g, F):	5.017	0.961
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.261
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.413	0.527
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.73%	10.24%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

vsm 9/30/24

SLC 9/30/2024

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/17/2024
Worklist:	81294
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3389000
MB concentration:	0.010
M/B 2 Sigma CSU:	0.093
MB MDC:	0.242
MB Numerical Performance Indicator:	0.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81294	LCSD81294
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.508
Target Conc. (pCi/L, g, F):	4.962	4.929
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.708	4.636
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.832	0.839
Numerical Performance Indicator:	-0.58	-0.66
Percent Recovery:	94.87%	94.07%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81294	92751679006
Duplicate Sample I.D.	LCSD81294	92751679006DUP
Sample Result (pCi/L, g, F):	4.708	1.234
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.832	0.311
Sample Duplicate Result (pCi/L, g, F):	4.636	1.359
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.839	0.358
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.118	-0.519
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.86%	9.68%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

SLC 9/30/24

LAM 9/30/24

Quality Control Sample Performance Assessment

Pace Analytical™
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Test:	Ra-226
Analyst:	SLC
Date:	9/19/2024
Worklist:	81332
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3391001
MB concentration:	0.097
M/B 2 Sigma CSU:	0.111
MB MDC:	0.228
MB Numerical Performance Indicator:	1.71
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81332	LCSD81332
Count Date:	10/2/2024	10/2/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.976	4.972
Uncertainty (Calculated):	0.234	0.234
Result (pCi/L, g, F):	4.582	5.011
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.809	0.881
Numerical Performance Indicator:	-0.92	0.09
Percent Recovery:	92.08%	100.80%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81332	92751679027
Duplicate Sample I.D.	LCSD81332	92751679027DUP
Sample Result (pCi/L, g, F):	4.582	0.266
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.809	0.149
Sample Duplicate Result (pCi/L, g, F):	5.011	0.191
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.135
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.704	0.727
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.04%	32.58%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
10/3/24

VAM 10/3/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 15, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2024 and September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Some samples ID's were corrected to match the COC.

Revision 2: Correct units for Dissolved Mercury.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92751692001	**MCD-B-92**	Water	09/04/24 13:55	09/05/24 10:00
92751692002	**MCD-B-93**	Water	09/04/24 13:28	09/05/24 10:00
92751692003	**MCD-B-97**	Water	09/04/24 11:43	09/05/24 10:00
92751692004	**MCD-AP234-FD-4**	Water	09/04/24 00:00	09/05/24 10:00
92751692005	**MCD-AP234-EB-5**	Water	09/04/24 15:10	09/05/24 10:00
92751692006	**MCD-B-98**	Water	09/05/24 09:50	09/06/24 15:55
92751692007	**MCD-B-83**	Water	09/06/24 09:56	09/06/24 15:55
92751692008	**MCD-B-63**	Water	09/06/24 10:55	09/06/24 15:55
92751692009	**MCD-B-66**	Water	09/09/24 11:10	09/10/24 08:50
92751692010	**MCD-B-82**	Water	09/09/24 12:55	09/10/24 08:50
92751692011	**MCD-AP234-FD-5**	Water	09/09/24 00:00	09/10/24 08:50
92751692012	**MCD-B-106D**	Water	09/09/24 14:06	09/10/24 08:50
92751692013	**MCD-B-107D**	Water	09/09/24 11:24	09/10/24 08:50
92751692014	**MCD-AP234-FB-4**	Water	09/09/24 12:00	09/10/24 08:50
92751692015	**MCD-B-108D**	Water	09/09/24 14:21	09/10/24 08:50
92751692016	**MCD-AP234-EB-4**	Water	09/09/24 16:00	09/10/24 08:50
92751692017	**MCD-B-111D**	Water	09/09/24 10:06	09/10/24 08:50
92751692018	**MCD-B-120D**	Water	09/09/24 15:17	09/10/24 08:50
92751692019	**MCD-B-125D**	Water	09/09/24 13:13	09/10/24 08:50
92751692020	**MCD-B-102D**	Water	09/10/24 13:05	09/11/24 15:55
92751692021	**MCD-B-88**	Water	09/10/24 13:17	09/11/24 15:55
92751692022	**MCD-B-104D**	Water	09/10/24 11:40	09/11/24 15:55
92751692023	**MCD-B-122D**	Water	09/10/24 13:38	09/11/24 15:55
92751692024	**MCD-AP234-FB-5**	Water	09/10/24 10:18	09/11/24 15:55
92751692025	**MCD-B-101D**	Water	09/10/24 10:40	09/11/24 15:55
92751692026	**MCD-B-77**	Water	09/11/24 10:36	09/11/24 15:55
92751692027	**MCD-B-56**	Water	09/11/24 10:45	09/11/24 15:55

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92751692001	**MCD-B-92**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692002	**MCD-B-93**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692003	**MCD-B-97**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692004	**MCD-AP234-FD-4**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692005	**MCD-AP234-EB-5**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692006	**MCD-B-98**	EPA 6010D	MJS2	5
		EPA 6010D	MJS2	5

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	MT1	13
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692007	**MCD-B-83**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692008	**MCD-B-63**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751692009	**MCD-B-66**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692010	**MCD-B-82**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692011	**MCD-AP234-FD-5**	EPA 6010D	AJM	5

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692012	**MCD-B-106D**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692013	**MCD-B-107D**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692014	**MCD-AP234-FB-4**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692015	**MCD-B-108D**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692016	**MCD-AP234-EB-4**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692017	**MCD-B-111D**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692018	**MCD-B-120D**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692019	**MCD-B-125D**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692020	**MCD-B-102D**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692021	**MCD-B-88**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692022	**MCD-B-104D**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692023	**MCD-B-122D**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692024	**MCD-AP234-FB-5**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692025	**MCD-B-101D**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CDM	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92751692026	**MCD-B-77**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92751692027	**MCD-B-56**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-92 **Lab ID: 92751692001** Collected: 09/04/24 13:55 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 20:57	7439-89-6	
Potassium	**6.1**	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 20:57	7440-09-7	
Sodium	**25.3**	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 20:57	7440-23-5	
Calcium	**125**	mg/L	1.0	0.12	1	09/06/24 13:14	09/10/24 20:57	7440-70-2	
Magnesium	**20.6**	mg/L	0.050	0.012	1	09/06/24 13:14	09/11/24 14:36	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:12	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:12	7440-38-2	B
Barium	**0.015**	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:12	7440-39-3	
Beryllium	**0.015**	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:12	7440-41-7	
Boron	**2.4**	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:12	7440-42-8	
Cadmium	**0.0011**	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:12	7440-47-3	
Cobalt	**0.061**	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:12	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:12	7439-98-7	
Selenium	**0.0051**	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 08:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**953**	mg/L	25.0	25.0	1		09/10/24 12:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 20:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 20:39		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/10/24 20:39		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.8**	mg/L	1.0	0.60	1		09/07/24 22:23	16887-00-6	
Fluoride	**0.35**	mg/L	0.10	0.050	1		09/07/24 22:23	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-92 **Lab ID: 92751692001** Collected: 09/04/24 13:55 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**470**	mg/L	11.0	5.5	11		09/08/24 10:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-93 **Lab ID: 92751692002** Collected: 09/04/24 13:28 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 21:12	7439-89-6	
Potassium	**5.4**	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 21:12	7440-09-7	
Sodium	**27.7**	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 21:12	7440-23-5	
Calcium	**123**	mg/L	1.0	0.12	1	09/06/24 13:14	09/10/24 21:12	7440-70-2	
Magnesium	**20.6**	mg/L	0.050	0.012	1	09/06/24 13:14	09/10/24 21:12	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:15	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:15	7440-38-2	B
Barium	**0.013**	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:15	7440-39-3	
Beryllium	**0.012**	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:15	7440-41-7	
Boron	**2.5**	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:15	7440-42-8	
Cadmium	**0.00078**	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:15	7440-47-3	
Cobalt	**0.034**	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:15	7439-92-1	
Lithium	**0.0095J**	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:15	7439-98-7	
Selenium	**0.0023J**	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 08:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**930**	mg/L	25.0	25.0	1		09/10/24 12:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.1**	mg/L	5.0	5.0	1		09/10/24 20:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 20:43		
Alkalinity, Total as CaCO3	**5.1**	mg/L	5.0	5.0	1		09/10/24 20:43		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.9**	mg/L	1.0	0.60	1		09/07/24 22:39	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		09/07/24 22:39	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-93 **Lab ID: 92751692002** Collected: 09/04/24 13:28 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**480**	mg/L	11.0	5.5	11		09/08/24 11:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-97 **Lab ID: 92751692003** Collected: 09/04/24 11:43 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 21:17	7439-89-6	
Potassium	**5.5**	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 21:17	7440-09-7	
Sodium	**42.5**	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 21:17	7440-23-5	
Magnesium	**33.9**	mg/L	0.050	0.012	1	09/06/24 13:14	09/10/24 21:17	7439-95-4	
Calcium	**237**	mg/L	5.0	0.61	5	09/06/24 13:14	09/11/24 14:41	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:19	7440-36-0	
Arsenic	**0.0023J**	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:19	7440-38-2	B
Barium	**0.021**	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:19	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:19	7440-41-7	
Boron	**3.6**	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:19	7440-42-8	
Cadmium	**0.00063**	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:19	7440-47-3	
Cobalt	**0.0032J**	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:19	7439-92-1	
Lithium	**0.0049J**	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:19	7439-98-7	
Selenium	**0.0022J**	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 08:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1320**	mg/L	25.0	25.0	1		09/10/24 12:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**67.2**	mg/L	5.0	5.0	1		09/10/24 20:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 20:48		
Alkalinity, Total as CaCO3	**67.2**	mg/L	5.0	5.0	1		09/10/24 20:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.8**	mg/L	1.0	0.60	1		09/07/24 22:55	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/07/24 22:55	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-97 **Lab ID: 92751692003** Collected: 09/04/24 11:43 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**661**	mg/L	15.0	7.5	15		09/08/24 11:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FD-4 **Lab ID: 92751692004** Collected: 09/04/24 00:00 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**243**	mg/L	5.0	0.61	5	09/06/24 13:14	09/11/24 14:45	7440-70-2	
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 21:22	7439-89-6	
Potassium	**5.7**	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 21:22	7440-09-7	
Sodium	**43.1**	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 21:22	7440-23-5	
Magnesium	**34.5**	mg/L	0.050	0.012	1	09/06/24 13:14	09/10/24 21:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:23	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:23	7440-38-2	B
Barium	**0.021**	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:23	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:23	7440-41-7	
Boron	**3.6**	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:23	7440-42-8	
Cadmium	**0.00064**	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:23	7440-47-3	
Cobalt	**0.0031J**	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:23	7439-92-1	
Lithium	**0.0047J**	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:23	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 08:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1320**	mg/L	25.0	25.0	1		09/10/24 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**67.3**	mg/L	5.0	5.0	1		09/10/24 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 20:56		
Alkalinity, Total as CaCO3	**67.3**	mg/L	5.0	5.0	1		09/10/24 20:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.9**	mg/L	1.0	0.60	1		09/07/24 23:11	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/07/24 23:11	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FD-4 **Lab ID: 92751692004** Collected: 09/04/24 00:00 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**666**	mg/L	15.0	7.5	15		09/08/24 11:32	14808-79-8	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-EB-5 **Lab ID: 92751692005** Collected: 09/04/24 15:10 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 21:27	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 21:27	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 21:27	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/06/24 13:14	09/10/24 21:27	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/06/24 13:14	09/10/24 21:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:26	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:26	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 08:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/10/24 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 21:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 21:05		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/10/24 21:05		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/07/24 23:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/07/24 23:27	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-EB-5 **Lab ID: 92751692005** Collected: 09/04/24 15:10 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/07/24 23:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-98 **Lab ID: 92751692006** Collected: 09/05/24 09:50 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**2.0**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 19:06	7439-89-6	
Potassium	**8.3**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 19:06	7440-09-7	
Sodium	**11.6**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 19:06	7440-23-5	
Calcium	**74.8**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 19:06	7440-70-2	
Magnesium	**6.9**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 19:06	7439-95-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron, Dissolved	**0.19**	mg/L	0.040	0.025	1	09/12/24 13:08	09/14/24 16:32	7439-89-6	
Calcium, Dissolved	**72.0**	mg/L	1.0	0.12	1	09/12/24 13:08	09/14/24 16:32	7440-70-2	M1
Magnesium, Dissolved	**6.5**	mg/L	0.050	0.012	1	09/12/24 13:08	09/14/24 16:32	7439-95-4	
Sodium, Dissolved	**10.8**	mg/L	1.0	0.58	1	09/12/24 13:08	09/14/24 16:32	7440-23-5	
Potassium, Dissolved	**7.2**	mg/L	0.50	0.15	1	09/12/24 13:08	09/14/24 16:32	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:44	7440-38-2	
Barium	**0.12**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:44	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:44	7440-41-7	
Boron	**0.82**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:44	7440-42-8	
Cadmium	**0.00085**	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:44	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:44	7440-48-4	
Lead	**0.0014**	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:44	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:44	7440-28-0	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony, Dissolved	**0.00087J**	mg/L	0.0030	0.00054	1	09/11/24 14:37	09/13/24 13:24	7440-36-0	B
Arsenic, Dissolved	ND	mg/L	0.0050	0.00084	1	09/11/24 14:37	09/13/24 13:24	7440-38-2	
Barium, Dissolved	**0.11**	mg/L	0.0050	0.00047	1	09/11/24 14:37	09/13/24 13:24	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.00050	0.000094	1	09/11/24 14:37	09/13/24 13:24	7440-41-7	
Boron, Dissolved	**0.79**	mg/L	0.040	0.012	1	09/11/24 14:37	09/13/24 13:24	7440-42-8	
Cadmium, Dissolved	**0.00075**	mg/L	0.00050	0.00010	1	09/11/24 14:37	09/13/24 13:24	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	0.0019	1	09/11/24 14:37	09/13/24 13:24	7440-47-3	
Cobalt, Dissolved	**0.00040J**	mg/L	0.0050	0.00032	1	09/11/24 14:37	09/13/24 13:24	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0010	0.00016	1	09/11/24 14:37	09/13/24 13:24	7439-92-1	
Lithium, Dissolved	ND	mg/L	0.030	0.0016	1	09/11/24 14:37	09/13/24 13:24	7439-93-2	
Molybdenum, Dissolved	ND	mg/L	0.010	0.00062	1	09/11/24 14:37	09/13/24 13:24	7439-98-7	
Selenium, Dissolved	ND	mg/L	0.0050	0.00096	1	09/11/24 14:37	09/13/24 13:24	7782-49-2	
Thallium, Dissolved	ND	mg/L	0.0010	0.00038	1	09/11/24 14:37	09/13/24 13:24	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-98 **Lab ID: 92751692006** Collected: 09/05/24 09:50 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:05	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury, Dissolved	ND	mg/L	0.00020	0.00013	1	09/23/24 11:00	09/23/24 14:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**370**	mg/L	25.0	25.0	1		09/11/24 13:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**73.2**	mg/L	5.0	5.0	1		09/11/24 18:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 18:03		
Alkalinity, Total as CaCO3	**73.2**	mg/L	5.0	5.0	1		09/11/24 18:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.029J**	mg/L	0.10	0.022	1		09/10/24 04:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		09/10/24 10:19	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/10/24 10:19	16984-48-8	M1
Sulfate	**155**	mg/L	4.0	2.0	4		09/10/24 20:15	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-83 **Lab ID: 92751692007** Collected: 09/06/24 09:56 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.034J**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 19:11	7439-89-6	
Potassium	**2.3**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 19:11	7440-09-7	
Sodium	**8.7**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 19:11	7440-23-5	
Calcium	**29.5**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 19:11	7440-70-2	
Magnesium	**7.8**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 19:11	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:48	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:48	7440-39-3	
Beryllium	**0.00034J**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:48	7440-41-7	
Boron	**0.27**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:48	7440-42-8	
Cadmium	**0.00025J**	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:48	7440-43-9	
Chromium	**0.0025J**	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:48	7440-47-3	
Cobalt	**0.013**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:48	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:48	7439-98-7	
Selenium	**0.012**	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**213**	mg/L	25.0	25.0	1		09/11/24 14:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**39.6**	mg/L	5.0	5.0	1		09/11/24 19:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 19:04		
Alkalinity, Total as CaCO3	**39.6**	mg/L	5.0	5.0	1		09/11/24 19:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.7**	mg/L	1.0	0.60	1		09/10/24 11:06	16887-00-6	
Fluoride	**0.092J**	mg/L	0.10	0.050	1		09/10/24 11:06	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-83 **Lab ID: 92751692007** Collected: 09/06/24 09:56 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**94.1**	mg/L	1.0	0.50	1		09/10/24 11:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-63 **Lab ID: 92751692008** Collected: 09/06/24 10:55 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**6.1**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 19:16	7439-89-6	
Potassium	**2.5**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 19:16	7440-09-7	
Sodium	**11.2**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 19:16	7440-23-5	
Calcium	**20.2**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 19:16	7440-70-2	
Magnesium	**6.8**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 19:16	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 19:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 19:51	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 19:51	7440-39-3	
Beryllium	**0.00035J**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 19:51	7440-41-7	
Boron	**0.42**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 19:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 19:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 19:51	7440-47-3	
Cobalt	**0.032**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 19:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 19:51	7439-92-1	
Lithium	**0.0050J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 19:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 19:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 19:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 19:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**187**	mg/L	25.0	25.0	1		09/11/24 14:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**64.5**	mg/L	5.0	5.0	1		09/11/24 19:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 19:10		
Alkalinity, Total as CaCO3	**64.5**	mg/L	5.0	5.0	1		09/11/24 19:10		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.040J**	mg/L	0.10	0.022	1		09/10/24 04:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.0**	mg/L	1.0	0.60	1		09/10/24 11:22	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		09/10/24 11:22	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-63 **Lab ID: 92751692008** Collected: 09/06/24 10:55 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**56.9**	mg/L	1.0	0.50	1		09/10/24 11:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-66 **Lab ID: 92751692009** Collected: 09/09/24 11:10 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.2**	mg/L	0.50	0.15	1	09/12/24 17:29	09/16/24 20:01	7440-09-7	
Sodium	**24.1**	mg/L	1.0	0.58	1	09/12/24 17:29	09/16/24 20:01	7440-23-5	
Calcium	**33.5**	mg/L	1.0	0.12	1	09/12/24 17:29	09/16/24 20:01	7440-70-2	
Iron	ND	mg/L	0.040	0.025	1	09/12/24 17:29	09/17/24 21:08	7439-89-6	
Magnesium	**39.7**	mg/L	0.050	0.012	1	09/12/24 17:29	09/17/24 21:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 16:46	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 16:46	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 16:46	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/17/24 16:46	7440-41-7	
Boron	**2.0**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 16:46	7440-42-8	
Cadmium	**0.00066**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/17/24 16:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/17/24 16:46	7440-47-3	
Cobalt	**0.032**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/17/24 16:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 16:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/13/24 13:55	09/17/24 16:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 16:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 16:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 16:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**437**	mg/L	25.0	25.0	1		09/12/24 12:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**34.4**	mg/L	5.0	5.0	1		09/13/24 13:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:35		
Alkalinity, Total as CaCO3	**34.4**	mg/L	5.0	5.0	1		09/13/24 13:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:35	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10**	mg/L	1.0	0.60	1		09/12/24 03:59	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/12/24 03:59	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-66 **Lab ID: 92751692009** Collected: 09/09/24 11:10 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**227**	mg/L	5.0	2.5	5		09/12/24 09:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-82 **Lab ID: 92751692010** Collected: 09/09/24 12:55 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 17:29	09/17/24 21:13	7439-89-6	
Magnesium	**67.9**	mg/L	0.050	0.012	1	09/12/24 17:29	09/17/24 21:13	7439-95-4	
Potassium	**6.5**	mg/L	0.50	0.15	1	09/12/24 17:29	09/16/24 20:06	7440-09-7	
Sodium	**19.0**	mg/L	1.0	0.58	1	09/12/24 17:29	09/16/24 20:06	7440-23-5	
Calcium	**34.3**	mg/L	1.0	0.12	1	09/12/24 17:29	09/16/24 20:06	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 17:56	7440-36-0	
Arsenic	**0.0059**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 17:56	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 17:56	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 15:55	7440-41-7	
Boron	**0.34**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 17:56	7440-42-8	
Cadmium	**0.00071**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 15:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 15:55	7440-47-3	
Cobalt	**0.00059J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 15:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 17:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 15:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 17:56	7439-98-7	
Selenium	**0.0017J**	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 17:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 17:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**614**	mg/L	25.0	25.0	1		09/12/24 12:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.8**	mg/L	5.0	5.0	1		09/13/24 13:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:41		
Alkalinity, Total as CaCO3	**6.8**	mg/L	5.0	5.0	1		09/13/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:35	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10**	mg/L	1.0	0.60	1		09/12/24 04:15	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/12/24 04:15	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-82 **Lab ID: 92751692010** Collected: 09/09/24 12:55 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**346**	mg/L	8.0	4.0	8		09/12/24 10:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FD-5 **Lab ID: 92751692011** Collected: 09/09/24 00:00 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.6**	mg/L	0.50	0.15	1	09/12/24 17:29	09/16/24 20:11	7440-09-7	
Sodium	**19.3**	mg/L	1.0	0.58	1	09/12/24 17:29	09/16/24 20:11	7440-23-5	
Calcium	**34.7**	mg/L	1.0	0.12	1	09/12/24 17:29	09/16/24 20:11	7440-70-2	
Iron	ND	mg/L	0.040	0.025	1	09/12/24 17:29	09/17/24 21:17	7439-89-6	
Magnesium	**69.4**	mg/L	0.050	0.012	1	09/12/24 17:29	09/17/24 21:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:00	7440-36-0	
Arsenic	**0.0069**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:00	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:00	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 15:59	7440-41-7	
Boron	**0.32**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:00	7440-42-8	
Cadmium	**0.00070**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 15:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 15:59	7440-47-3	
Cobalt	**0.00056J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 15:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 15:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:00	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**607**	mg/L	25.0	25.0	1		09/12/24 12:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.8**	mg/L	5.0	5.0	1		09/13/24 13:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:46		
Alkalinity, Total as CaCO3	**6.8**	mg/L	5.0	5.0	1		09/13/24 13:46		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:36	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10**	mg/L	1.0	0.60	1		09/12/24 04:31	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/12/24 04:31	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FD-5 **Lab ID: 92751692011** Collected: 09/09/24 00:00 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**332**	mg/L	8.0	4.0	8		09/12/24 10:33	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-106D **Lab ID: 92751692012** Collected: 09/09/24 14:06 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**26.3**	mg/L	1.0	0.12	1	09/13/24 18:33	09/16/24 23:20	7440-70-2	M1
Iron	ND	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 21:54	7439-89-6	
Magnesium	**12.2**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 21:54	7439-95-4	M1
Potassium	**3.7**	mg/L	0.50	0.15	1	09/13/24 18:33	09/16/24 23:20	7440-09-7	
Sodium	**13.2**	mg/L	1.0	0.58	1	09/13/24 18:33	09/16/24 23:20	7440-23-5	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:04	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:04	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:02	7440-41-7	
Boron	**0.72**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:04	7439-92-1	
Lithium	**0.0051J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**216**	mg/L	25.0	25.0	1		09/12/24 12:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**34.6**	mg/L	5.0	5.0	1		09/13/24 13:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:51		
Alkalinity, Total as CaCO3	**34.6**	mg/L	5.0	5.0	1		09/13/24 13:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:36	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.7**	mg/L	1.0	0.60	1		09/12/24 04:47	16887-00-6	
Fluoride	**0.076J**	mg/L	0.10	0.050	1		09/12/24 04:47	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-106D **Lab ID: 92751692012** Collected: 09/09/24 14:06 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**91.6**	mg/L	2.0	1.0	2		09/12/24 10:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-107D **Lab ID: 92751692013** Collected: 09/09/24 11:24 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.38**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:08	7439-89-6	
Magnesium	**28.5**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:08	7439-95-4	
Potassium	**6.1**	mg/L	0.50	0.15	1	09/13/24 18:33	09/16/24 23:39	7440-09-7	
Sodium	**20.0**	mg/L	1.0	0.58	1	09/13/24 18:33	09/16/24 23:39	7440-23-5	
Calcium	**73.7**	mg/L	1.0	0.12	1	09/13/24 18:33	09/16/24 23:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:08	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:08	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:06	7440-41-7	
Boron	**8.9**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:06	7440-47-3	
Cobalt	**0.00087J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:08	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 11:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**563**	mg/L	25.0	25.0	1		09/12/24 12:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.9**	mg/L	5.0	5.0	1		09/13/24 13:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 13:57		
Alkalinity, Total as CaCO3	**26.9**	mg/L	5.0	5.0	1		09/13/24 13:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.090J**	mg/L	0.10	0.022	1		09/14/24 03:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.2**	mg/L	1.0	0.60	1		09/12/24 05:03	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		09/12/24 05:03	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-107D **Lab ID: 92751692013** Collected: 09/09/24 11:24 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**272**	mg/L	6.0	3.0	6		09/12/24 11:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FB-4 **Lab ID: 92751692014** Collected: 09/09/24 12:00 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	09/13/24 18:33	09/16/24 23:44	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/13/24 18:33	09/16/24 23:44	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/13/24 18:33	09/16/24 23:44	7440-70-2	
Iron	ND	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:13	7439-89-6	
Magnesium	ND	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:12	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 15:37	7440-41-7	
Boron	**0.046**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 15:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 15:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 15:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 15:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**41.0**	mg/L	25.0	25.0	1		09/12/24 12:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 14:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 14:03		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/13/24 14:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/11/24 22:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/11/24 22:58	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FB-4 **Lab ID: 92751692014** Collected: 09/09/24 12:00 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/11/24 22:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-108D **Lab ID: 92751692015** Collected: 09/09/24 14:21 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.9**	mg/L	0.50	0.15	1	09/13/24 18:33	09/16/24 23:49	7440-09-7	
Sodium	**18.5**	mg/L	1.0	0.58	1	09/13/24 18:33	09/16/24 23:49	7440-23-5	
Calcium	**75.6**	mg/L	1.0	0.12	1	09/13/24 18:33	09/16/24 23:49	7440-70-2	
Iron	**0.42**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:18	7439-89-6	
Magnesium	**31.2**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:18	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:16	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:16	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:10	7440-41-7	
Boron	**5.9**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:16	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:10	7440-47-3	
Cobalt	**0.0037J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:16	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**575**	mg/L	25.0	25.0	1		09/12/24 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.2**	mg/L	5.0	5.0	1		09/13/24 14:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 14:07		
Alkalinity, Total as CaCO3	**26.2**	mg/L	5.0	5.0	1		09/13/24 14:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:38	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**28.2**	mg/L	1.0	0.60	1		09/12/24 05:18	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		09/12/24 05:18	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-108D **Lab ID: 92751692015** Collected: 09/09/24 14:21 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**266**	mg/L	6.0	3.0	6		09/12/24 11:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-EB-4 **Lab ID: 92751692016** Collected: 09/09/24 16:00 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:23	7439-89-6	
Magnesium	ND	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:23	7439-95-4	
Potassium	ND	mg/L	0.50	0.15	1	09/13/24 18:33	09/16/24 23:53	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/13/24 18:33	09/16/24 23:53	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/13/24 18:33	09/16/24 23:53	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:20	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 15:41	7440-41-7	
Boron	**0.037J**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 15:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 15:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 15:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 15:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/12/24 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 14:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 14:37		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/13/24 14:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:38	18496-25-8	R1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/11/24 23:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/11/24 23:46	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-EB-4 **Lab ID: 92751692016** Collected: 09/09/24 16:00 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/11/24 23:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-111D **Lab ID: 92751692017** Collected: 09/09/24 10:06 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.2**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 00:08	7440-09-7	
Sodium	**50.2**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 00:08	7440-23-5	
Calcium	**91.0**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 00:08	7440-70-2	
Iron	**2.0**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:27	7439-89-6	
Magnesium	**8.6**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:25	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:25	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:13	7440-41-7	
Boron	**0.14**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:13	7440-47-3	
Cobalt	**0.00040J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:25	7439-92-1	
Lithium	**0.019J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:13	7439-93-2	
Molybdenum	**0.0080J**	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**528**	mg/L	25.0	25.0	1		09/12/24 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		09/13/24 14:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 14:52		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		09/13/24 14:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.2**	mg/L	1.0	0.60	1		09/12/24 05:34	16887-00-6	
Fluoride	**0.44**	mg/L	0.10	0.050	1		09/12/24 05:34	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-111D **Lab ID: 92751692017** Collected: 09/09/24 10:06 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**219**	mg/L	5.0	2.5	5		09/12/24 11:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-120D **Lab ID: 92751692018** Collected: 09/09/24 15:17 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**8.3**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 00:12	7440-09-7	
Sodium	**29.2**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 00:12	7440-23-5	
Calcium	**95.0**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 00:12	7440-70-2	
Iron	**0.033J**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:42	7439-89-6	
Magnesium	**19.5**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:42	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:29	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:29	7440-39-3	
Beryllium	**0.00079**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:17	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	09/13/24 13:55	09/19/24 16:17	7440-42-8	
Cadmium	**0.00081**	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:17	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:29	7439-92-1	
Lithium	**0.052**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:29	7439-98-7	
Selenium	**0.0054**	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**654**	mg/L	25.0	25.0	1		09/12/24 12:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**24.0**	mg/L	5.0	5.0	1		09/13/24 15:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 15:15		
Alkalinity, Total as CaCO3	**24.0**	mg/L	5.0	5.0	1		09/13/24 15:15		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		09/12/24 05:50	16887-00-6	
Fluoride	**0.084J**	mg/L	0.10	0.050	1		09/12/24 05:50	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-120D **Lab ID: 92751692018** Collected: 09/09/24 15:17 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**89.5**	mg/L	1.0	0.50	1		09/12/24 05:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-125D **Lab ID: 92751692019** Collected: 09/09/24 13:13 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**12.3**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 00:17	7440-09-7	
Sodium	**60.4**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 00:17	7440-23-5	
Calcium	**126**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 00:17	7440-70-2	
Iron	**8.5**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:47	7439-89-6	
Magnesium	**24.2**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:47	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0012J**	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:33	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:33	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:21	7440-41-7	
Boron	**0.91**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:21	7440-47-3	
Cobalt	**0.0032J**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:33	7439-92-1	
Lithium	**0.029J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:21	7439-93-2	
Molybdenum	**0.0022J**	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**879**	mg/L	25.0	25.0	1		09/12/24 12:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**93.9**	mg/L	5.0	5.0	1		09/13/24 15:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 15:30		
Alkalinity, Total as CaCO3	**93.9**	mg/L	5.0	5.0	1		09/13/24 15:30		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.058J**	mg/L	0.10	0.022	1		09/14/24 03:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.5**	mg/L	1.0	0.60	1		09/12/24 06:06	16887-00-6	
Fluoride	**0.090J**	mg/L	0.10	0.050	1		09/12/24 06:06	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-125D **Lab ID: 92751692019** Collected: 09/09/24 13:13 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**404**	mg/L	9.0	4.5	9		09/12/24 11:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-102D **Lab ID: 92751692020** Collected: 09/10/24 13:05 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**22.0**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 01:22	7440-23-5	
Calcium	**74.4**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 01:22	7440-70-2	
Iron	**0.027J**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 23:49	7439-89-6	
Potassium	**6.6**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 23:49	7440-09-7	
Magnesium	**16.8**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 23:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:29	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:29	7440-39-3	
Beryllium	**0.00087**	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 14:05	7440-41-7	
Boron	**2.2**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 14:05	7440-42-8	
Cadmium	**0.00071**	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/19/24 18:29	7440-47-3	
Cobalt	**0.010**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/19/24 18:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 18:29	7439-92-1	
Lithium	**0.010J**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/19/24 18:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 18:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:28	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.1**	mg/L	5.0	5.0	1		09/17/24 19:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 19:58		
Alkalinity, Total as CaCO3	**17.1**	mg/L	5.0	5.0	1		09/17/24 19:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**474**	mg/L	31.2	31.2	1		09/16/24 10:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.3**	mg/L	1.0	0.60	1		09/13/24 18:59	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		09/13/24 18:59	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-102D **Lab ID: 92751692020** Collected: 09/10/24 13:05 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**256**	mg/L	6.0	3.0	6		09/14/24 10:49	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-88 **Lab ID: 92751692021** Collected: 09/10/24 13:17 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 23:54	7439-89-6	
Potassium	**9.4**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 23:54	7440-09-7	
Magnesium	**33.8**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 23:54	7439-95-4	
Sodium	**26.3**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 01:27	7440-23-5	
Calcium	**94.4**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 01:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:33	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:33	7440-39-3	
Beryllium	**0.0019**	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 14:08	7440-41-7	
Boron	**2.4**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 14:08	7440-42-8	
Cadmium	**0.0035**	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/19/24 18:33	7440-47-3	
Cobalt	**0.0080**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/19/24 18:33	7440-48-4	
Lead	**0.0012**	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 18:33	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/19/24 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:33	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 18:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:31	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**11.5**	mg/L	5.0	5.0	1		09/17/24 20:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 20:03		
Alkalinity, Total as CaCO3	**11.5**	mg/L	5.0	5.0	1		09/17/24 20:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**770**	mg/L	31.2	31.2	1		09/16/24 10:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.4**	mg/L	1.0	0.60	1		09/13/24 08:52	16887-00-6	
Fluoride	**0.056J**	mg/L	0.10	0.050	1		09/13/24 08:52	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-88 **Lab ID: 92751692021** Collected: 09/10/24 13:17 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**474**	mg/L	9.0	4.5	9		09/13/24 13:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-104D **Lab ID: 92751692022** Collected: 09/10/24 11:40 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**153**	mg/L	1.0	0.12	1	09/18/24 12:36	09/20/24 15:07	7440-70-2	M1
Iron	**9.4**	mg/L	0.040	0.025	1	09/18/24 12:36	09/20/24 15:07	7439-89-6	M1
Magnesium	**25.5**	mg/L	0.050	0.012	1	09/18/24 12:36	09/20/24 15:07	7439-95-4	M1
Potassium	**7.8**	mg/L	0.50	0.15	1	09/18/24 12:36	09/20/24 15:07	7440-09-7	M1
Sodium	**21.3**	mg/L	1.0	0.58	1	09/18/24 12:36	09/20/24 15:07	7440-23-5	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:45	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:45	7440-39-3	
Beryllium	**0.00088**	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 14:12	7440-41-7	
Boron	**0.23**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 14:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/24/24 14:12	7440-47-3	
Cobalt	**0.10**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/24/24 14:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 18:45	7439-92-1	
Lithium	**0.034**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/24/24 14:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 18:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**62.1**	mg/L	5.0	5.0	1		09/17/24 20:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 20:09		
Alkalinity, Total as CaCO3	**62.1**	mg/L	5.0	5.0	1		09/17/24 20:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**825**	mg/L	31.2	31.2	1		09/16/24 10:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.7**	mg/L	1.0	0.60	1		09/13/24 09:07	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		09/13/24 09:07	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-104D **Lab ID: 92751692022** Collected: 09/10/24 11:40 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**457**	mg/L	10.0	5.0	10		09/13/24 13:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-122D **Lab ID: 92751692023** Collected: 09/10/24 13:38 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**9.5**	mg/L	0.040	0.025	1	09/18/24 12:36	09/20/24 15:27	7439-89-6	
Potassium	**3.2**	mg/L	0.50	0.15	1	09/18/24 12:36	09/20/24 15:27	7440-09-7	
Sodium	**23.6**	mg/L	1.0	0.58	1	09/18/24 12:36	09/20/24 15:27	7440-23-5	
Calcium	**50.2**	mg/L	1.0	0.12	1	09/18/24 12:36	09/20/24 15:27	7440-70-2	
Magnesium	**8.9**	mg/L	0.050	0.012	1	09/18/24 12:36	09/20/24 15:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:50	7440-38-2	
Barium	**0.041**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:50	7440-39-3	
Beryllium	**0.00042J**	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 14:16	7440-41-7	
Boron	**0.28**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 14:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/24/24 14:16	7440-47-3	
Cobalt	**0.0065**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/24/24 14:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 18:50	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/24/24 14:16	7439-93-2	
Molybdenum	**0.0020J**	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 18:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:36	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**109**	mg/L	5.0	5.0	1		09/17/24 20:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 20:16		
Alkalinity, Total as CaCO3	**109**	mg/L	5.0	5.0	1		09/17/24 20:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**324**	mg/L	25.0	25.0	1		09/16/24 10:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.2**	mg/L	1.0	0.60	1		09/13/24 09:22	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		09/13/24 09:22	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-122D **Lab ID: 92751692023** Collected: 09/10/24 13:38 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**104**	mg/L	2.0	1.0	2		09/13/24 13:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FB-5 **Lab ID: 92751692024** Collected: 09/10/24 10:18 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/18/24 12:36	09/20/24 15:41	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/18/24 12:36	09/20/24 15:41	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/18/24 12:36	09/20/24 15:41	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/18/24 12:36	09/20/24 15:41	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/18/24 12:36	09/21/24 12:16	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:54	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 13:37	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 13:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/24/24 13:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/24/24 13:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 18:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/14/24 14:02	09/24/24 13:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 18:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:38	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 20:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 20:25		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/17/24 20:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/16/24 10:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/12/24 22:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/12/24 22:49	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-AP234-FB-5 **Lab ID: 92751692024** Collected: 09/10/24 10:18 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/12/24 22:49	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-101D **Lab ID: 92751692025** Collected: 09/10/24 10:40 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Magnesium	**37.1**	mg/L	0.050	0.012	1	09/18/24 12:36	09/21/24 12:31	7439-95-4	
Iron	**1.2**	mg/L	0.040	0.025	1	09/18/24 12:36	09/20/24 15:46	7439-89-6	
Potassium	**6.6**	mg/L	0.50	0.15	1	09/18/24 12:36	09/20/24 15:46	7440-09-7	
Sodium	**23.2**	mg/L	1.0	0.58	1	09/18/24 12:36	09/20/24 15:46	7440-23-5	
Calcium	**98.0**	mg/L	1.0	0.12	1	09/18/24 12:36	09/20/24 15:46	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 18:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 18:58	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 18:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 14:19	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 14:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 18:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/24/24 14:19	7440-47-3	
Cobalt	**0.0072**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/24/24 14:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 18:58	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/24/24 14:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 18:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 18:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 18:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**41.0**	mg/L	5.0	5.0	1		09/17/24 20:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 20:29		
Alkalinity, Total as CaCO3	**41.0**	mg/L	5.0	5.0	1		09/17/24 20:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**646**	mg/L	31.2	31.2	1		09/16/24 10:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:53	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		09/13/24 10:09	16887-00-6	
Fluoride	**0.072J**	mg/L	0.10	0.050	1		09/13/24 10:09	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-101D **Lab ID: 92751692025** Collected: 09/10/24 10:40 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**371**	mg/L	8.0	4.0	8		09/13/24 14:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-77 **Lab ID: 92751692026** Collected: 09/11/24 10:36 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Magnesium	**4.3**	mg/L	0.050	0.012	1	09/18/24 12:36	09/21/24 12:35	7439-95-4	
Iron	**28.4**	mg/L	0.040	0.025	1	09/18/24 12:36	09/20/24 15:51	7439-89-6	
Potassium	**1.3**	mg/L	0.50	0.15	1	09/18/24 12:36	09/20/24 15:51	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	09/18/24 12:36	09/20/24 15:51	7440-23-5	
Calcium	**14.3**	mg/L	1.0	0.12	1	09/18/24 12:36	09/20/24 15:51	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 19:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 19:02	7440-38-2	
Barium	**0.099**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 19:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 14:23	7440-41-7	
Boron	**0.30**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 14:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 19:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/24/24 14:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/24/24 14:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 19:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/14/24 14:02	09/24/24 14:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 19:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 19:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 19:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:10	09/20/24 12:44	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	5.0	5.0	1		09/19/24 13:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/24 13:41		
Alkalinity, Total as CaCO3	**104**	mg/L	5.0	5.0	1		09/19/24 13:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**107**	mg/L	25.0	25.0	1		09/16/24 17:34		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/13/24 19:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/24 19:13	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-77 **Lab ID: 92751692026** Collected: 09/11/24 10:36 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**7.0**	mg/L	1.0	0.50	1		09/13/24 19:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-56 **Lab ID: 92751692027** Collected: 09/11/24 10:45 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	09/18/24 12:36	09/20/24 15:55	7439-89-6	
Potassium	**4.5**	mg/L	0.50	0.15	1	09/18/24 12:36	09/20/24 15:55	7440-09-7	
Sodium	**19.4**	mg/L	1.0	0.58	1	09/18/24 12:36	09/20/24 15:55	7440-23-5	
Calcium	**19.8**	mg/L	1.0	0.12	1	09/18/24 12:36	09/20/24 15:55	7440-70-2	
Magnesium	**31.3**	mg/L	0.050	0.012	1	09/18/24 12:36	09/21/24 12:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/14/24 14:02	09/19/24 19:06	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	09/14/24 14:02	09/19/24 19:06	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00047	1	09/14/24 14:02	09/19/24 19:06	7440-39-3	
Beryllium	**0.0012**	mg/L	0.00050	0.000094	1	09/14/24 14:02	09/24/24 14:27	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	09/14/24 14:02	09/24/24 14:27	7440-42-8	
Cadmium	**0.00034J**	mg/L	0.00050	0.00010	1	09/14/24 14:02	09/19/24 19:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/14/24 14:02	09/24/24 14:27	7440-47-3	
Cobalt	**0.069**	mg/L	0.0050	0.00032	1	09/14/24 14:02	09/24/24 14:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/14/24 14:02	09/19/24 19:06	7439-92-1	
Lithium	**0.0056J**	mg/L	0.030	0.0016	1	09/14/24 14:02	09/24/24 14:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/14/24 14:02	09/19/24 19:06	7439-98-7	
Selenium	**0.013**	mg/L	0.0050	0.00096	1	09/14/24 14:02	09/19/24 19:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/14/24 14:02	09/19/24 19:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/23/24 15:00	09/24/24 10:09	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/24 13:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/24 13:59		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/19/24 13:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**411**	mg/L	25.0	25.0	1		09/16/24 17:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.2**	mg/L	1.0	0.60	1		09/13/24 10:24	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		09/13/24 10:24	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Sample: MCD-B-56 **Lab ID: 92751692027** Collected: 09/11/24 10:45 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**238**	mg/L	5.0	2.5	5		09/13/24 14:29	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 880838
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

METHOD BLANK: 4536493 Matrix: Water
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/10/24 18:00	
Iron	mg/L	ND	0.040	0.025	09/10/24 18:00	
Magnesium	mg/L	ND	0.050	0.012	09/11/24 13:17	
Potassium	mg/L	ND	0.50	0.15	09/10/24 18:00	
Sodium	mg/L	ND	1.0	0.58	09/10/24 18:00	

LABORATORY CONTROL SAMPLE: 4536494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536495 4536496

Parameter	Units	92751658002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	92.0	1	1	90.7	89.9	-130	-209	75-125	1	20	M1
Iron	mg/L	11.6	1	1	12.3	12.2	63	58	75-125	0	20	M1
Magnesium	mg/L	27.0	1	1	23.9	24.3	-314	-271	75-125	2	20	M1
Potassium	mg/L	3.0	1	1	3.8	3.9	87	93	75-125	2	20	
Sodium	mg/L	13.8	1	1	14.3	14.6	50	81	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882148
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692006, 92751692007, 92751692008

METHOD BLANK: 4542901 Matrix: Water
Associated Lab Samples: 92751692006, 92751692007, 92751692008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/24 17:48	
Iron	mg/L	ND	0.040	0.025	09/13/24 17:48	
Magnesium	mg/L	ND	0.050	0.012	09/13/24 17:48	
Potassium	mg/L	ND	0.50	0.15	09/13/24 17:48	
Sodium	mg/L	ND	1.0	0.58	09/13/24 17:48	

LABORATORY CONTROL SAMPLE: 4542902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	
Iron	mg/L	1	0.97	97	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	112	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542903 4542904

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	33.0	1	1	32.5	33.5	-49	47	75-125	3	20	M1
Iron	mg/L	0.042	1	1	0.96	0.96	92	92	75-125	0	20	
Magnesium	mg/L	20.4	1	1	20.4	21.1	-3	67	75-125	3	20	M1
Potassium	mg/L	5.7	1	1	6.5	6.7	77	96	75-125	3	20	
Sodium	mg/L	75.7	1	1	73.6	76.3	-204	57	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882215
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692009, 92751692010, 92751692011

METHOD BLANK: 4543444 Matrix: Water
Associated Lab Samples: 92751692009, 92751692010, 92751692011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/16/24 17:49	
Iron	mg/L	ND	0.040	0.025	09/17/24 18:51	
Magnesium	mg/L	ND	0.050	0.012	09/17/24 18:51	
Potassium	mg/L	ND	0.50	0.15	09/16/24 17:49	
Sodium	mg/L	ND	1.0	0.58	09/16/24 17:49	

LABORATORY CONTROL SAMPLE: 4543445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	1.2	120	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4543446 4543447

Parameter	Units	92752880002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	14.3	1	1	15.0	15.2	69	90	75-125	1	20	M1
Iron	mg/L	0.49	1	1	1.2	1.3	75	78	75-125	2	20	
Magnesium	mg/L	3.0	1	1	3.9	3.8	93	83	75-125	3	20	
Potassium	mg/L	3.5	1	1	4.5	4.6	95	102	75-125	1	20	
Sodium	mg/L	14.1	1	1	14.9	15.2	87	111	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882611
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019, 92751692020, 92751692021

METHOD BLANK: 4545809 Matrix: Water
Associated Lab Samples: 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019, 92751692020, 92751692021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/16/24 23:10	
Iron	mg/L	ND	0.040	0.025	09/17/24 21:44	
Magnesium	mg/L	ND	0.050	0.012	09/17/24 21:44	
Potassium	mg/L	ND	0.50	0.15	09/16/24 23:10	
Sodium	mg/L	ND	1.0	0.58	09/16/24 23:10	

LABORATORY CONTROL SAMPLE: 4545810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.94	94	80-120	
Potassium	mg/L	1	1.2	119	80-120	
Sodium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545811 4545812

Parameter	Units	92751692012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	26.3	1	1	27.7	27.6	140	131	75-125	0	20	M1
Iron	mg/L	ND	1	1	0.97	0.97	97	97	75-125	0	20	
Magnesium	mg/L	12.2	1	1	13.4	13.6	120	140	75-125	2	20	M1
Potassium	mg/L	3.7	1	1	4.8	4.8	117	109	75-125	2	20	
Sodium	mg/L	13.2	1	1	14.5	14.6	123	139	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 883502
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692022, 92751692023, 92751692024, 92751692025, 92751692026, 92751692027

METHOD BLANK: 4549699 Matrix: Water
Associated Lab Samples: 92751692022, 92751692023, 92751692024, 92751692025, 92751692026, 92751692027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/20/24 14:53	
Iron	mg/L	ND	0.040	0.025	09/20/24 14:53	
Magnesium	mg/L	ND	0.050	0.012	09/20/24 14:53	
Potassium	mg/L	ND	0.50	0.15	09/20/24 14:53	
Sodium	mg/L	ND	1.0	0.58	09/20/24 14:53	

LABORATORY CONTROL SAMPLE: 4549700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Iron	mg/L	1	0.96	96	80-120	
Magnesium	mg/L	1	0.94	94	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4549701 4549702

Parameter	Units	92751692022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	153	1	1	135	146	-1750	-652	75-125	8	20	M1
Iron	mg/L	9.4	1	1	9.2	9.9	-29	46	75-125	8	20	M1
Magnesium	mg/L	25.5	1	1	23.3	25.1	-216	-37	75-125	7	20	M1
Potassium	mg/L	7.8	1	1	7.7	8.4	-5	65	75-125	9	20	M1
Sodium	mg/L	21.3	1	1	19.8	21.3	-153	-3	75-125	7	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881827
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET Filtered Diss.
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692006

METHOD BLANK: 4541073 Matrix: Water
Associated Lab Samples: 92751692006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium, Dissolved	mg/L	ND	1.0	0.12	09/14/24 16:23	
Iron, Dissolved	mg/L	ND	0.040	0.025	09/14/24 16:23	
Magnesium, Dissolved	mg/L	ND	0.050	0.012	09/14/24 16:23	
Potassium, Dissolved	mg/L	ND	0.50	0.15	09/14/24 16:23	
Sodium, Dissolved	mg/L	ND	1.0	0.58	09/14/24 16:23	

LABORATORY CONTROL SAMPLE: 4541074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	mg/L	1	0.95J	95	80-120	
Iron, Dissolved	mg/L	1	0.94	94	80-120	
Magnesium, Dissolved	mg/L	1	0.95	95	80-120	
Potassium, Dissolved	mg/L	1	1.0	105	80-120	
Sodium, Dissolved	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541075 4541076

Parameter	Units	92751692006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	mg/L	72.0	1	1	72.0	74.0	2	203	75-125	3	20	M1
Iron, Dissolved	mg/L	0.19	1	1	1.1	1.2	93	96	75-125	2	20	
Magnesium, Dissolved	mg/L	6.5	1	1	7.4	7.5	88	104	75-125	2	20	
Potassium, Dissolved	mg/L	7.2	1	1	8.3	8.4	105	115	75-125	1	20	
Sodium, Dissolved	mg/L	10.8	1	1	11.7	12.0	93	123	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 880813
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

METHOD BLANK: 4536258 Matrix: Water
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/09/24 15:53	
Arsenic	mg/L	0.0014J	0.0050	0.00084	09/09/24 15:53	
Barium	mg/L	ND	0.0050	0.00047	09/09/24 15:53	
Beryllium	mg/L	ND	0.00050	0.000094	09/09/24 15:53	
Boron	mg/L	ND	0.040	0.012	09/09/24 15:53	
Cadmium	mg/L	ND	0.00050	0.00010	09/09/24 15:53	
Chromium	mg/L	ND	0.0050	0.0019	09/09/24 15:53	
Cobalt	mg/L	ND	0.0050	0.00032	09/09/24 15:53	
Lead	mg/L	ND	0.0010	0.00016	09/09/24 15:53	
Lithium	mg/L	ND	0.030	0.0016	09/09/24 15:53	
Molybdenum	mg/L	ND	0.010	0.00062	09/09/24 15:53	
Selenium	mg/L	ND	0.0050	0.00096	09/09/24 15:53	
Thallium	mg/L	ND	0.0010	0.00038	09/09/24 15:53	

LABORATORY CONTROL SAMPLE: 4536259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536260 4536261

Parameter	Units	92751658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.097	95	97	75-125	2	20	
Arsenic	mg/L	0.00093J	0.1	0.1	0.096	0.095	95	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536260 4536261

Parameter	Units	92751658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.067	0.1	0.1	0.16	0.16	91	92	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Boron	mg/L	1.5	1	1	2.4	2.4	89	89	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.0019J	0.1	0.1	0.095	0.095	93	93	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.093	94	93	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881825
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692006, 92751692007, 92751692008

METHOD BLANK: 4541064 Matrix: Water
Associated Lab Samples: 92751692006, 92751692007, 92751692008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/16/24 18:53	
Arsenic	mg/L	ND	0.0050	0.00084	09/16/24 18:53	
Barium	mg/L	ND	0.0050	0.00047	09/16/24 18:53	
Beryllium	mg/L	ND	0.00050	0.000094	09/16/24 18:53	
Boron	mg/L	ND	0.040	0.012	09/16/24 18:53	
Cadmium	mg/L	ND	0.00050	0.00010	09/16/24 18:53	
Chromium	mg/L	ND	0.0050	0.0019	09/16/24 18:53	
Cobalt	mg/L	ND	0.0050	0.00032	09/16/24 18:53	
Lead	mg/L	ND	0.0010	0.00016	09/16/24 18:53	
Lithium	mg/L	ND	0.030	0.0016	09/16/24 18:53	
Molybdenum	mg/L	ND	0.010	0.00062	09/16/24 18:53	
Selenium	mg/L	ND	0.0050	0.00096	09/16/24 18:53	
Thallium	mg/L	ND	0.0010	0.00038	09/16/24 18:53	

LABORATORY CONTROL SAMPLE: 4541065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541066 4541067

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541066 4541067

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	94	95	75-125	1	20	
Beryllium	mg/L	0.0027	0.1	0.1	0.089	0.091	86	88	75-125	2	20	
Boron	mg/L	1.1	1	1	1.9	1.9	76	78	75-125	1	20	
Cadmium	mg/L	0.00098	0.1	0.1	0.094	0.095	93	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Cobalt	mg/L	0.010	0.1	0.1	0.10	0.10	92	93	75-125	1	20	
Lead	mg/L	0.00021J	0.1	0.1	0.093	0.093	93	92	75-125	0	20	
Lithium	mg/L	0.0099J	0.1	0.1	0.098	0.10	88	90	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882511
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

METHOD BLANK: 4545096 Matrix: Water
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/17/24 16:08	
Arsenic	mg/L	ND	0.0050	0.00084	09/17/24 16:08	
Barium	mg/L	ND	0.0050	0.00047	09/17/24 16:08	
Beryllium	mg/L	ND	0.00050	0.000094	09/17/24 16:08	
Boron	mg/L	ND	0.040	0.012	09/17/24 16:08	
Cadmium	mg/L	ND	0.00050	0.00010	09/17/24 16:08	
Chromium	mg/L	ND	0.0050	0.0019	09/17/24 16:08	
Cobalt	mg/L	ND	0.0050	0.00032	09/17/24 16:08	
Lead	mg/L	ND	0.0010	0.00016	09/17/24 16:08	
Lithium	mg/L	ND	0.030	0.0016	09/17/24 16:08	
Molybdenum	mg/L	ND	0.010	0.00062	09/17/24 16:08	
Selenium	mg/L	ND	0.0050	0.00096	09/17/24 16:08	
Thallium	mg/L	ND	0.0010	0.00038	09/17/24 16:08	

LABORATORY CONTROL SAMPLE: 4545097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0027J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	
Barium	mg/L	0.023	0.1	0.1	0.12	0.13	101	104	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	0.34	1	1	1.3	1.4	97	101	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	97	75-125	2	20	
Cobalt	mg/L	0.0021J	0.1	0.1	0.10	0.098	99	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.092	96	92	75-125	3	20	
Lithium	mg/L	0.016J	0.1	0.1	0.11	0.11	97	97	75-125	0	20	
Molybdenum	mg/L	0.0023J	0.1	0.1	0.098	0.10	96	99	75-125	3	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.091	94	91	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882694
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692026, 92751692027

METHOD BLANK: 4546278 Matrix: Water
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692026, 92751692027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/19/24 17:56	
Arsenic	mg/L	ND	0.0050	0.00084	09/19/24 17:56	
Barium	mg/L	ND	0.0050	0.00047	09/19/24 17:56	
Beryllium	mg/L	ND	0.00050	0.000094	09/24/24 13:30	
Boron	mg/L	ND	0.040	0.012	09/24/24 13:30	
Cadmium	mg/L	ND	0.00050	0.00010	09/19/24 17:56	
Chromium	mg/L	ND	0.0050	0.0019	09/19/24 17:56	
Cobalt	mg/L	ND	0.0050	0.00032	09/19/24 17:56	
Lead	mg/L	ND	0.0010	0.00016	09/19/24 17:56	
Lithium	mg/L	ND	0.030	0.0016	09/19/24 17:56	
Molybdenum	mg/L	ND	0.010	0.00062	09/19/24 17:56	
Selenium	mg/L	ND	0.0050	0.00096	09/19/24 17:56	
Thallium	mg/L	ND	0.0010	0.00038	09/19/24 17:56	

LABORATORY CONTROL SAMPLE: 4546279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.93	93	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4546280 4546281

Parameter	Units	92751700024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4546280 4546281

Parameter	Units	92751700024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0025J	0.1	0.1	0.10	0.10	99	102	75-125	3	20	
Barium	mg/L	0.015	0.1	0.1	0.12	0.12	108	107	75-125	1	20	
Beryllium	mg/L	0.0053	0.1	0.1	0.094	0.094	88	89	75-125	1	20	
Boron	mg/L	0.45	1	1	1.3	1.4	83	97	75-125	10	20	
Cadmium	mg/L	0.0022	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	0.29	0.1	0.1	0.39	0.38	98	94	75-125	1	20	
Lead	mg/L	0.00086J	0.1	0.1	0.096	0.096	95	95	75-125	0	20	
Lithium	mg/L	0.090	0.1	0.1	0.19	0.19	103	100	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20	
Selenium	mg/L	0.0018J	0.1	0.1	0.099	0.10	97	102	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881826
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92751692006

METHOD BLANK: 4541069 Matrix: Water
Associated Lab Samples: 92751692006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.00075J	0.0030	0.00054	09/13/24 13:17	
Arsenic, Dissolved	mg/L	ND	0.0050	0.00084	09/13/24 13:17	
Barium, Dissolved	mg/L	ND	0.0050	0.00047	09/13/24 13:17	
Beryllium, Dissolved	mg/L	ND	0.00050	0.000094	09/13/24 13:17	
Boron, Dissolved	mg/L	ND	0.040	0.012	09/13/24 13:17	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	09/13/24 13:17	
Chromium, Dissolved	mg/L	ND	0.0050	0.0019	09/13/24 13:17	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00032	09/13/24 13:17	
Lead, Dissolved	mg/L	ND	0.0010	0.00016	09/13/24 13:17	
Lithium, Dissolved	mg/L	ND	0.030	0.0016	09/13/24 13:17	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00062	09/13/24 13:17	
Selenium, Dissolved	mg/L	ND	0.0050	0.00096	09/13/24 13:17	
Thallium, Dissolved	mg/L	ND	0.0010	0.00038	09/13/24 13:17	

LABORATORY CONTROL SAMPLE: 4541070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.098	98	80-120	
Arsenic, Dissolved	mg/L	0.1	0.095	95	80-120	
Barium, Dissolved	mg/L	0.1	0.097	97	80-120	
Beryllium, Dissolved	mg/L	0.1	0.096	96	80-120	
Boron, Dissolved	mg/L	1	0.97	97	80-120	
Cadmium, Dissolved	mg/L	0.1	0.097	97	80-120	
Chromium, Dissolved	mg/L	0.1	0.098	98	80-120	
Cobalt, Dissolved	mg/L	0.1	0.096	96	80-120	
Lead, Dissolved	mg/L	0.1	0.096	96	80-120	
Lithium, Dissolved	mg/L	0.1	0.096	96	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.098	98	80-120	
Selenium, Dissolved	mg/L	0.1	0.094	94	80-120	
Thallium, Dissolved	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541071 4541072

Parameter	Units	92751692006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	mg/L	0.00087J	0.1	0.1	0.096	0.095	95	95	75-125	0	20	
Arsenic, Dissolved	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541071 4541072

Parameter	Units	92751692006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	mg/L	0.11	0.1	0.1	0.20	0.20	96	92	75-125	2	20	
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.089	0.091	89	91	75-125	2	20	
Boron, Dissolved	mg/L	0.79	1	1	1.7	1.7	92	92	75-125	0	20	
Cadmium, Dissolved	mg/L	0.00075	0.1	0.1	0.095	0.096	94	95	75-125	1	20	
Chromium, Dissolved	mg/L	ND	0.1	0.1	0.094	0.096	93	96	75-125	3	20	
Cobalt, Dissolved	mg/L	0.00040J	0.1	0.1	0.092	0.095	92	94	75-125	3	20	
Lead, Dissolved	mg/L	ND	0.1	0.1	0.090	0.091	90	91	75-125	1	20	
Lithium, Dissolved	mg/L	ND	0.1	0.1	0.091	0.093	90	92	75-125	2	20	
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.097	0.098	96	97	75-125	1	20	
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.095	0.096	94	95	75-125	1	20	
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.090	0.092	90	92	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 883894 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005, 92751692006, 92751692007, 92751692008, 92751692009, 92751692010, 92751692011, 92751692012

METHOD BLANK: 4551831 — Matrix: Water
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005, 92751692006, 92751692007, 92751692008, 92751692009, 92751692010, 92751692011, 92751692012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/20/24 08:16	

LABORATORY CONTROL SAMPLE: 4551832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4551833 4551834

Parameter	Units	92751692001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	93	88	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 883900 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019, 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692026

METHOD BLANK: 4551853 Matrix: Water
Associated Lab Samples: 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019, 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/20/24 11:23	

LABORATORY CONTROL SAMPLE: 4551854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4551855 4551856

Parameter	Units	92751692013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	100	95	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 884584
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692027

METHOD BLANK: 4555136 Matrix: Water
Associated Lab Samples: 92751692027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/24/24 09:17	

LABORATORY CONTROL SAMPLE: 4555137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4555138 4555139

Parameter	Units	92753244003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	98	91	75-125	7	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 884602
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692006

METHOD BLANK: 4555177 Matrix: Water
Associated Lab Samples: 92751692006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.00013	09/23/24 14:53	

LABORATORY CONTROL SAMPLE: 4555178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4555179 4555180

Parameter	Units	92751692006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	mg/L	ND	0.0025	0.0025	0.0025	0.0025	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881518 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

METHOD BLANK: 4539487 Matrix: Water
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/10/24 12:49	

LABORATORY CONTROL SAMPLE: 4539488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	80-120	

SAMPLE DUPLICATE: 4539489

Parameter	Units	92745448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	9160	9160	0	10	H1

SAMPLE DUPLICATE: 4539490

Parameter	Units	92751692003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1320	1310	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881821
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692006

METHOD BLANK: 4541049 Matrix: Water
Associated Lab Samples: 92751692006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/24 13:43	

LABORATORY CONTROL SAMPLE: 4541050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	425	106	80-120	

SAMPLE DUPLICATE: 4541051

Parameter	Units	92752167007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	570	598	5	10	

SAMPLE DUPLICATE: 4541052

Parameter	Units	92751700009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1220	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881824
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692007, 92751692008

METHOD BLANK: 4541058 Matrix: Water
Associated Lab Samples: 92751692007, 92751692008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/24 14:03	

LABORATORY CONTROL SAMPLE: 4541059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	422	106	80-120	

SAMPLE DUPLICATE: 4541060

Parameter	Units	92752185001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	511	532	4	10	

SAMPLE DUPLICATE: 4541061

Parameter	Units	92751700004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1290	1270	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882138 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

METHOD BLANK: 4542861 Matrix: Water
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/12/24 12:45	

LABORATORY CONTROL SAMPLE: 4542862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	402	100	80-120	

SAMPLE DUPLICATE: 4542863

Parameter	Units	92751700020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	444	459	3	10	

SAMPLE DUPLICATE: 4542864

Parameter	Units	92751692017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	528	539	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881044 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

METHOD BLANK: 4537672 Matrix: Water
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/10/24 17:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/10/24 17:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/10/24 17:39	

LABORATORY CONTROL SAMPLE: 4537673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

LABORATORY CONTROL SAMPLE: 4537674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.8	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537677 4537678

Parameter	Units	92751341004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	123	50	50	175	180	104	113	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540803 4540804

Parameter	Units	92751673002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	15.3	50	50	66.8	67.6	103	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881617
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692006, 92751692007, 92751692008

METHOD BLANK: 4540224 Matrix: Water
Associated Lab Samples: 92751692006, 92751692007, 92751692008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/24 16:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 16:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 16:20	

LABORATORY CONTROL SAMPLE: 4540225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

LABORATORY CONTROL SAMPLE: 4540226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540227 4540228

Parameter	Units	92752128010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	68.8	50	50	84.8	84.3	32	31	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540229 4540230

Parameter	Units	92752128011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	37.0	50	50	71.7	72.0	69	70	80-120	0	25	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882134 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015

METHOD BLANK: 4542829 Matrix: Water
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/13/24 10:55	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 10:55	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 10:55	

LABORATORY CONTROL SAMPLE: 4542830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4542831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.7	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542832 4542833

Parameter	Units	92752827004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	317	50	50	365	372	96	111	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542834 4542835

Parameter	Units	92752827005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	61.7	50	50	99.1	98.4	75	73	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882135
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692016, 92751692017, 92751692018, 92751692019

METHOD BLANK: 4542839 Matrix: Water
Associated Lab Samples: 92751692016, 92751692017, 92751692018, 92751692019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/13/24 14:21	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 14:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 14:21	

LABORATORY CONTROL SAMPLE: 4542840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4542841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542842 4542843

Parameter	Units	92751692016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.6	50.5	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542844 4542845

Parameter	Units	92751692017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	116	50	50	164	166	95	100	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 883222 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025

METHOD BLANK: 4548387 Matrix: Water
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/17/24 17:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/17/24 17:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/17/24 17:45	

LABORATORY CONTROL SAMPLE: 4548388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 4548389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.7	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4548390 4548391

Parameter	Units	92753035001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	44.4	50	50	93.1	92.5	97	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4548392 4548393

Parameter	Units	92753035002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	43.9	50	50	93.9	92.9	100	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 883594
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692026, 92751692027

METHOD BLANK: 4550280 Matrix: Water
Associated Lab Samples: 92751692026, 92751692027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/19/24 11:44	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/24 11:44	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/24 11:44	

LABORATORY CONTROL SAMPLE: 4550281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

LABORATORY CONTROL SAMPLE: 4550282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4550283 4550284

Parameter	Units	92752827003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	169	50	50	222	219	106	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4550285 4550286

Parameter	Units	92753953001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	91.8	50	50	126	124	69	65	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882744 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025

METHOD BLANK: 4546410 Matrix: Water
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/16/24 10:19	

LABORATORY CONTROL SAMPLE: 4546411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4546412

Parameter	Units	92752880004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	117	5	25	

SAMPLE DUPLICATE: 4546413

Parameter	Units	92751700024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	469	470	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882932
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692026, 92751692027

METHOD BLANK: 4547081 Matrix: Water
Associated Lab Samples: 92751692026, 92751692027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/16/24 17:33	

LABORATORY CONTROL SAMPLE: 4547082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4547083

Parameter	Units	92752529001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	646	650	1	25	

SAMPLE DUPLICATE: 4547084

Parameter	Units	92751673003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	122	126	3	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881393 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

METHOD BLANK: 4539188 Matrix: Water
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/10/24 04:08	

LABORATORY CONTROL SAMPLE: 4539189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539190 4539191

Parameter	Units	92750994002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.56	0.50	108	96	80-120	11	10	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539192 4539193

Parameter	Units	92751658005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.55	106	109	80-120	3	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881394
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692006

METHOD BLANK: 4539194 Matrix: Water
Associated Lab Samples: 92751692006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/10/24 04:20	

LABORATORY CONTROL SAMPLE: 4539195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.45	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539196 4539197

Parameter	Units	92751700001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.54	97	108	80-120	10	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539198 4539199

Parameter	Units	92752167009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.54	101	107	80-120	5	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881395
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692007, 92751692008

METHOD BLANK: 4539200 Matrix: Water
Associated Lab Samples: 92751692007, 92751692008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/10/24 04:35	

LABORATORY CONTROL SAMPLE: 4539201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539210 4539211

Parameter	Units	92751658009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.56	99	111	80-120	11	10	R1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882376
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

METHOD BLANK: 4544511 Matrix: Water
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/14/24 03:31	

LABORATORY CONTROL SAMPLE: 4544512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544513 4544514

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.49	94	98	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544515 4544516

Parameter	Units	92751692016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.57	91	113	80-120	22	10	R1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882377
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692026, 92751692027

METHOD BLANK: 4544517 Matrix: Water
Associated Lab Samples: 92751692020, 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692026, 92751692027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/14/24 03:45	

LABORATORY CONTROL SAMPLE: 4544518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544519 4544520

Parameter	Units	92752833004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.51	93	102	80-120	9	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544521 4544522

Parameter	Units	92751692025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.54	99	107	80-120	8	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881039
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

METHOD BLANK: 4537646 Matrix: Water
Associated Lab Samples: 92751692001, 92751692002, 92751692003, 92751692004, 92751692005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/24 15:48	
Fluoride	mg/L	ND	0.10	0.050	09/07/24 15:48	
Sulfate	mg/L	ND	1.0	0.50	09/07/24 15:48	

LABORATORY CONTROL SAMPLE: 4537647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537648 4537649

Parameter	Units	92752003007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.5	50	50	66.7	67.3	100	101	90-110	1	10	H3
Fluoride	mg/L	ND	2.5	2.5	1.3	1.3	51	52	90-110	2	10	H3,M1
Sulfate	mg/L	50.7	50	50	87.5	87.2	74	73	90-110	0	10	H3,M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537650 4537651

Parameter	Units	92751658003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.7	50	50	55.7	55.6	102	102	90-110	0	10	
Fluoride	mg/L	0.082J	2.5	2.5	2.8	2.8	110	110	90-110	0	10	
Sulfate	mg/L	87.8	50	50	121	118	66	60	90-110	3	10	M1

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(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881369
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692006, 92751692007, 92751692008

METHOD BLANK: 4539017 Matrix: Water
Associated Lab Samples: 92751692006, 92751692007, 92751692008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/24 21:38	
Fluoride	mg/L	ND	0.10	0.050	09/09/24 21:38	
Sulfate	mg/L	ND	1.0	0.50	09/09/24 21:38	

LABORATORY CONTROL SAMPLE: 4539018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	52.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539019 4539020

Parameter	Units	92752167002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.3	50	50	69.0	73.0	99	107	90-110	6	10	
Fluoride	mg/L	0.16	2.5	2.5	2.7	3.0	103	112	90-110	8	10	M1
Sulfate	mg/L	193	50	50	237	237	89	89	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539021 4539022

Parameter	Units	92751692006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	55.1	59.2	99	108	90-110	7	10	
Fluoride	mg/L	0.12	2.5	2.5	2.8	3.0	106	116	90-110	9	10	M1
Sulfate	mg/L	155	50	50	195	195	80	80	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 881917
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

METHOD BLANK: 4541849 Matrix: Water
Associated Lab Samples: 92751692009, 92751692010, 92751692011, 92751692012, 92751692013, 92751692014, 92751692015, 92751692016, 92751692017, 92751692018, 92751692019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/11/24 21:39	
Fluoride	mg/L	ND	0.10	0.050	09/11/24 21:39	
Sulfate	mg/L	ND	1.0	0.50	09/11/24 21:39	

LABORATORY CONTROL SAMPLE: 4541850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.7	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541851 4541852

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.1	50	50	52.3	53.5	100	103	90-110	2	10	
Fluoride	mg/L	0.093J	2.5	2.5	2.9	3.0	113	115	90-110	2	10	M1
Sulfate	mg/L	89.1	50	50	118	122	58	65	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541853 4541854

Parameter	Units	92751692014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.2	51.2	100	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.3	51.3	100	102	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882291
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692027

METHOD BLANK: 4544010 Matrix: Water
Associated Lab Samples: 92751692021, 92751692022, 92751692023, 92751692024, 92751692025, 92751692027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/24 22:03	
Fluoride	mg/L	ND	0.10	0.050	09/12/24 22:03	
Sulfate	mg/L	ND	1.0	0.50	09/12/24 22:03	

LABORATORY CONTROL SAMPLE: 4544011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544012 4544013

Parameter	Units	92751700025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.6	50	50	62.2	62.7	101	102	90-110	1	10	
Fluoride	mg/L	1.6	2.5	2.5	4.4	4.4	111	114	90-110	2	10	M1
Sulfate	mg/L	727	50	50	786	792	120	131	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544014 4544015

Parameter	Units	92753142002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.4	50.5	99	101	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	106	103	90-110	3	10	
Sulfate	mg/L	ND	50	50	50.4	51.1	101	102	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

QC Batch: 882401
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751692020, 92751692026

METHOD BLANK: 4544585 Matrix: Water
Associated Lab Samples: 92751692020, 92751692026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/24 12:42	
Fluoride	mg/L	ND	0.10	0.050	09/13/24 12:42	
Sulfate	mg/L	ND	1.0	0.50	09/13/24 12:42	

LABORATORY CONTROL SAMPLE: 4544586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.9	104	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544587 4544588

Parameter	Units	92753032003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	34.3	50	50	83.3	86.5	98	104	90-110	4	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	102	108	90-110	6	10	
Sulfate	mg/L	4.7	50	50	56.3	59.7	103	110	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544589 4544590

Parameter	Units	92753032014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.3	50	50	70.0	70.6	101	103	90-110	1	10	
Fluoride	mg/L	0.15	2.5	2.5	2.8	2.9	108	109	90-110	1	10	
Sulfate	mg/L	ND	50	50	52.2	52.8	104	105	90-110	1	10	

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QUALIFIERS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751692001	**MCD-B-92**	EPA 3010A	880838	EPA 6010D	880939
92751692002	**MCD-B-93**	EPA 3010A	880838	EPA 6010D	880939
92751692003	**MCD-B-97**	EPA 3010A	880838	EPA 6010D	880939
92751692004	**MCD-AP234-FD-4**	EPA 3010A	880838	EPA 6010D	880939
92751692005	**MCD-AP234-EB-5**	EPA 3010A	880838	EPA 6010D	880939
92751692006	**MCD-B-98**	EPA 3010A	882148	EPA 6010D	882244
92751692007	**MCD-B-83**	EPA 3010A	882148	EPA 6010D	882244
92751692008	**MCD-B-63**	EPA 3010A	882148	EPA 6010D	882244
92751692009	**MCD-B-66**	EPA 3010A	882215	EPA 6010D	882317
92751692010	**MCD-B-82**	EPA 3010A	882215	EPA 6010D	882317
92751692011	**MCD-AP234-FD-5**	EPA 3010A	882215	EPA 6010D	882317
92751692012	**MCD-B-106D**	EPA 3010A	882611	EPA 6010D	882633
92751692013	**MCD-B-107D**	EPA 3010A	882611	EPA 6010D	882633
92751692014	**MCD-AP234-FB-4**	EPA 3010A	882611	EPA 6010D	882633
92751692015	**MCD-B-108D**	EPA 3010A	882611	EPA 6010D	882633
92751692016	**MCD-AP234-EB-4**	EPA 3010A	882611	EPA 6010D	882633
92751692017	**MCD-B-111D**	EPA 3010A	882611	EPA 6010D	882633
92751692018	**MCD-B-120D**	EPA 3010A	882611	EPA 6010D	882633
92751692019	**MCD-B-125D**	EPA 3010A	882611	EPA 6010D	882633
92751692020	**MCD-B-102D**	EPA 3010A	882611	EPA 6010D	882633
92751692021	**MCD-B-88**	EPA 3010A	882611	EPA 6010D	882633
92751692022	**MCD-B-104D**	EPA 3010A	883502	EPA 6010D	883588
92751692023	**MCD-B-122D**	EPA 3010A	883502	EPA 6010D	883588
92751692024	**MCD-AP234-FB-5**	EPA 3010A	883502	EPA 6010D	883588
92751692025	**MCD-B-101D**	EPA 3010A	883502	EPA 6010D	883588
92751692026	**MCD-B-77**	EPA 3010A	883502	EPA 6010D	883588
92751692027	**MCD-B-56**	EPA 3010A	883502	EPA 6010D	883588
92751692006	**MCD-B-98**	EPA 3010A	881827	EPA 6010D	882241
92751692001	**MCD-B-92**	EPA 3005A	880813	EPA 6020B	880958
92751692002	**MCD-B-93**	EPA 3005A	880813	EPA 6020B	880958
92751692003	**MCD-B-97**	EPA 3005A	880813	EPA 6020B	880958
92751692004	**MCD-AP234-FD-4**	EPA 3005A	880813	EPA 6020B	880958
92751692005	**MCD-AP234-EB-5**	EPA 3005A	880813	EPA 6020B	880958
92751692006	**MCD-B-98**	EPA 3005A	881825	EPA 6020B	881952
92751692007	**MCD-B-83**	EPA 3005A	881825	EPA 6020B	881952
92751692008	**MCD-B-63**	EPA 3005A	881825	EPA 6020B	881952
92751692009	**MCD-B-66**	EPA 3005A	882511	EPA 6020B	882626
92751692010	**MCD-B-82**	EPA 3005A	882511	EPA 6020B	882626
92751692011	**MCD-AP234-FD-5**	EPA 3005A	882511	EPA 6020B	882626
92751692012	**MCD-B-106D**	EPA 3005A	882511	EPA 6020B	882626
92751692013	**MCD-B-107D**	EPA 3005A	882511	EPA 6020B	882626
92751692014	**MCD-AP234-FB-4**	EPA 3005A	882511	EPA 6020B	882626
92751692015	**MCD-B-108D**	EPA 3005A	882511	EPA 6020B	882626
92751692016	**MCD-AP234-EB-4**	EPA 3005A	882511	EPA 6020B	882626
92751692017	**MCD-B-111D**	EPA 3005A	882511	EPA 6020B	882626

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751692018	**MCD-B-120D**	EPA 3005A	882511	EPA 6020B	882626
92751692019	**MCD-B-125D**	EPA 3005A	882511	EPA 6020B	882626
92751692020	**MCD-B-102D**	EPA 3005A	882694	EPA 6020B	882730
92751692021	**MCD-B-88**	EPA 3005A	882694	EPA 6020B	882730
92751692022	**MCD-B-104D**	EPA 3005A	882694	EPA 6020B	882730
92751692023	**MCD-B-122D**	EPA 3005A	882694	EPA 6020B	882730
92751692024	**MCD-AP234-FB-5**	EPA 3005A	882694	EPA 6020B	882730
92751692025	**MCD-B-101D**	EPA 3005A	882694	EPA 6020B	882730
92751692026	**MCD-B-77**	EPA 3005A	882694	EPA 6020B	882730
92751692027	**MCD-B-56**	EPA 3005A	882694	EPA 6020B	882730
92751692006	**MCD-B-98**	EPA 3005A	881826	EPA 6020B	881953
92751692001	**MCD-B-92**	EPA 7470A	883894	EPA 7470A	884113
92751692002	**MCD-B-93**	EPA 7470A	883894	EPA 7470A	884113
92751692003	**MCD-B-97**	EPA 7470A	883894	EPA 7470A	884113
92751692004	**MCD-AP234-FD-4**	EPA 7470A	883894	EPA 7470A	884113
92751692005	**MCD-AP234-EB-5**	EPA 7470A	883894	EPA 7470A	884113
92751692006	**MCD-B-98**	EPA 7470A	883894	EPA 7470A	884113
92751692007	**MCD-B-83**	EPA 7470A	883894	EPA 7470A	884113
92751692008	**MCD-B-63**	EPA 7470A	883894	EPA 7470A	884113
92751692009	**MCD-B-66**	EPA 7470A	883894	EPA 7470A	884113
92751692010	**MCD-B-82**	EPA 7470A	883894	EPA 7470A	884113
92751692011	**MCD-AP234-FD-5**	EPA 7470A	883894	EPA 7470A	884113
92751692012	**MCD-B-106D**	EPA 7470A	883894	EPA 7470A	884113
92751692013	**MCD-B-107D**	EPA 7470A	883900	EPA 7470A	884115
92751692014	**MCD-AP234-FB-4**	EPA 7470A	883900	EPA 7470A	884115
92751692015	**MCD-B-108D**	EPA 7470A	883900	EPA 7470A	884115
92751692016	**MCD-AP234-EB-4**	EPA 7470A	883900	EPA 7470A	884115
92751692017	**MCD-B-111D**	EPA 7470A	883900	EPA 7470A	884115
92751692018	**MCD-B-120D**	EPA 7470A	883900	EPA 7470A	884115
92751692019	**MCD-B-125D**	EPA 7470A	883900	EPA 7470A	884115
92751692020	**MCD-B-102D**	EPA 7470A	883900	EPA 7470A	884115
92751692021	**MCD-B-88**	EPA 7470A	883900	EPA 7470A	884115
92751692022	**MCD-B-104D**	EPA 7470A	883900	EPA 7470A	884115
92751692023	**MCD-B-122D**	EPA 7470A	883900	EPA 7470A	884115
92751692024	**MCD-AP234-FB-5**	EPA 7470A	883900	EPA 7470A	884115
92751692025	**MCD-B-101D**	EPA 7470A	883900	EPA 7470A	884115
92751692026	**MCD-B-77**	EPA 7470A	883900	EPA 7470A	884115
92751692027	**MCD-B-56**	EPA 7470A	884584	EPA 7470A	884804
92751692006	**MCD-B-98**	EPA 7470A	884602	EPA 7470A	884628
92751692001	**MCD-B-92**	SM 2540C-2015	881518		
92751692002	**MCD-B-93**	SM 2540C-2015	881518		
92751692003	**MCD-B-97**	SM 2540C-2015	881518		
92751692004	**MCD-AP234-FD-4**	SM 2540C-2015	881518		
92751692005	**MCD-AP234-EB-5**	SM 2540C-2015	881518		
92751692006	**MCD-B-98**	SM 2540C-2015	881821		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751692007	**MCD-B-83**	SM 2540C-2015	881824		
92751692008	**MCD-B-63**	SM 2540C-2015	881824		
92751692009	**MCD-B-66**	SM 2540C-2015	882138		
92751692010	**MCD-B-82**	SM 2540C-2015	882138		
92751692011	**MCD-AP234-FD-5**	SM 2540C-2015	882138		
92751692012	**MCD-B-106D**	SM 2540C-2015	882138		
92751692013	**MCD-B-107D**	SM 2540C-2015	882138		
92751692014	**MCD-AP234-FB-4**	SM 2540C-2015	882138		
92751692015	**MCD-B-108D**	SM 2540C-2015	882138		
92751692016	**MCD-AP234-EB-4**	SM 2540C-2015	882138		
92751692017	**MCD-B-111D**	SM 2540C-2015	882138		
92751692018	**MCD-B-120D**	SM 2540C-2015	882138		
92751692019	**MCD-B-125D**	SM 2540C-2015	882138		
92751692001	**MCD-B-92**	SM 2320B-2011	881044		
92751692002	**MCD-B-93**	SM 2320B-2011	881044		
92751692003	**MCD-B-97**	SM 2320B-2011	881044		
92751692004	**MCD-AP234-FD-4**	SM 2320B-2011	881044		
92751692005	**MCD-AP234-EB-5**	SM 2320B-2011	881044		
92751692006	**MCD-B-98**	SM 2320B-2011	881617		
92751692007	**MCD-B-83**	SM 2320B-2011	881617		
92751692008	**MCD-B-63**	SM 2320B-2011	881617		
92751692009	**MCD-B-66**	SM 2320B-2011	882134		
92751692010	**MCD-B-82**	SM 2320B-2011	882134		
92751692011	**MCD-AP234-FD-5**	SM 2320B-2011	882134		
92751692012	**MCD-B-106D**	SM 2320B-2011	882134		
92751692013	**MCD-B-107D**	SM 2320B-2011	882134		
92751692014	**MCD-AP234-FB-4**	SM 2320B-2011	882134		
92751692015	**MCD-B-108D**	SM 2320B-2011	882134		
92751692016	**MCD-AP234-EB-4**	SM 2320B-2011	882135		
92751692017	**MCD-B-111D**	SM 2320B-2011	882135		
92751692018	**MCD-B-120D**	SM 2320B-2011	882135		
92751692019	**MCD-B-125D**	SM 2320B-2011	882135		
92751692020	**MCD-B-102D**	SM 2320B-2011	883222		
92751692021	**MCD-B-88**	SM 2320B-2011	883222		
92751692022	**MCD-B-104D**	SM 2320B-2011	883222		
92751692023	**MCD-B-122D**	SM 2320B-2011	883222		
92751692024	**MCD-AP234-FB-5**	SM 2320B-2011	883222		
92751692025	**MCD-B-101D**	SM 2320B-2011	883222		
92751692026	**MCD-B-77**	SM 2320B-2011	883594		
92751692027	**MCD-B-56**	SM 2320B-2011	883594		
92751692020	**MCD-B-102D**	SM 2540C-2015	882744		
92751692021	**MCD-B-88**	SM 2540C-2015	882744		
92751692022	**MCD-B-104D**	SM 2540C-2015	882744		
92751692023	**MCD-B-122D**	SM 2540C-2015	882744		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751692024	**MCD-AP234-FB-5**	SM 2540C-2015	882744		
92751692025	**MCD-B-101D**	SM 2540C-2015	882744		
92751692026	**MCD-B-77**	SM 2540C-2015	882932		
92751692027	**MCD-B-56**	SM 2540C-2015	882932		
92751692001	**MCD-B-92**	SM 4500-S2D-2011	881393		
92751692002	**MCD-B-93**	SM 4500-S2D-2011	881393		
92751692003	**MCD-B-97**	SM 4500-S2D-2011	881393		
92751692004	**MCD-AP234-FD-4**	SM 4500-S2D-2011	881393		
92751692005	**MCD-AP234-EB-5**	SM 4500-S2D-2011	881393		
92751692006	**MCD-B-98**	SM 4500-S2D-2011	881394		
92751692007	**MCD-B-83**	SM 4500-S2D-2011	881395		
92751692008	**MCD-B-63**	SM 4500-S2D-2011	881395		
92751692009	**MCD-B-66**	SM 4500-S2D-2011	882376		
92751692010	**MCD-B-82**	SM 4500-S2D-2011	882376		
92751692011	**MCD-AP234-FD-5**	SM 4500-S2D-2011	882376		
92751692012	**MCD-B-106D**	SM 4500-S2D-2011	882376		
92751692013	**MCD-B-107D**	SM 4500-S2D-2011	882376		
92751692014	**MCD-AP234-FB-4**	SM 4500-S2D-2011	882376		
92751692015	**MCD-B-108D**	SM 4500-S2D-2011	882376		
92751692016	**MCD-AP234-EB-4**	SM 4500-S2D-2011	882376		
92751692017	**MCD-B-111D**	SM 4500-S2D-2011	882376		
92751692018	**MCD-B-120D**	SM 4500-S2D-2011	882376		
92751692019	**MCD-B-125D**	SM 4500-S2D-2011	882376		
92751692020	**MCD-B-102D**	SM 4500-S2D-2011	882377		
92751692021	**MCD-B-88**	SM 4500-S2D-2011	882377		
92751692022	**MCD-B-104D**	SM 4500-S2D-2011	882377		
92751692023	**MCD-B-122D**	SM 4500-S2D-2011	882377		
92751692024	**MCD-AP234-FB-5**	SM 4500-S2D-2011	882377		
92751692025	**MCD-B-101D**	SM 4500-S2D-2011	882377		
92751692026	**MCD-B-77**	SM 4500-S2D-2011	882377		
92751692027	**MCD-B-56**	SM 4500-S2D-2011	882377		
92751692001	**MCD-B-92**	EPA 300.0 Rev 2.1 1993	881039		
92751692002	**MCD-B-93**	EPA 300.0 Rev 2.1 1993	881039		
92751692003	**MCD-B-97**	EPA 300.0 Rev 2.1 1993	881039		
92751692004	**MCD-AP234-FD-4**	EPA 300.0 Rev 2.1 1993	881039		
92751692005	**MCD-AP234-EB-5**	EPA 300.0 Rev 2.1 1993	881039		
92751692006	**MCD-B-98**	EPA 300.0 Rev 2.1 1993	881369		
92751692007	**MCD-B-83**	EPA 300.0 Rev 2.1 1993	881369		
92751692008	**MCD-B-63**	EPA 300.0 Rev 2.1 1993	881369		
92751692009	**MCD-B-66**	EPA 300.0 Rev 2.1 1993	881917		
92751692010	**MCD-B-82**	EPA 300.0 Rev 2.1 1993	881917		
92751692011	**MCD-AP234-FD-5**	EPA 300.0 Rev 2.1 1993	881917		
92751692012	**MCD-B-106D**	EPA 300.0 Rev 2.1 1993	881917		
92751692013	**MCD-B-107D**	EPA 300.0 Rev 2.1 1993	881917		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92751692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751692014	**MCD-AP234-FB-4**	EPA 300.0 Rev 2.1 1993	881917		
92751692015	**MCD-B-108D**	EPA 300.0 Rev 2.1 1993	881917		
92751692016	**MCD-AP234-EB-4**	EPA 300.0 Rev 2.1 1993	881917		
92751692017	**MCD-B-111D**	EPA 300.0 Rev 2.1 1993	881917		
92751692018	**MCD-B-120D**	EPA 300.0 Rev 2.1 1993	881917		
92751692019	**MCD-B-125D**	EPA 300.0 Rev 2.1 1993	881917		
92751692020	**MCD-B-102D**	EPA 300.0 Rev 2.1 1993	882401		
92751692021	**MCD-B-88**	EPA 300.0 Rev 2.1 1993	882291		
92751692022	**MCD-B-104D**	EPA 300.0 Rev 2.1 1993	882291		
92751692023	**MCD-B-122D**	EPA 300.0 Rev 2.1 1993	882291		
92751692024	**MCD-AP234-FB-5**	EPA 300.0 Rev 2.1 1993	882291		
92751692025	**MCD-B-101D**	EPA 300.0 Rev 2.1 1993	882291		
92751692026	**MCD-B-77**	EPA 300.0 Rev 2.1 1993	882401		
92751692027	**MCD-B-56**	EPA 300.0 Rev 2.1 1993	882291		

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WO# : 92751692

92751692

CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be com

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Varg
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/V + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)
	Requested Analysis Filtered (Y/N)															Y/N	N	N	N	N	N	N	
1	MCD-B-92	WG	G	9/4/24	13:55		7	3		3		1					X	X	X	X	X	X	
2	MCD-B-93	WG	G	9/4/24	13:28		7	3		3		1					X	X	X	X	X	X	
3	MCD-B-97	WG	G	9/4/24	11:43		7	3		3		1					X	X	X	X	X	X	
4	MCD-AP234-FD-4	WG	G	9/4/24	--		7	3		3		1					X	X	X	X	X	X	
5	MCD-AP234-EB-5	WQ	G	9/4/24	15:10		7	3		3		1					X	X	X	X	X	X	
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN / [illegible] / WSP	09/05/24	0845	[illegible] 834 / COURIER GW	09/05/24	
	[illegible] 834 CMW	09/05/24			9/5/24 1040	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92751692**

PM: BV **Due Date: 09/19/24**
CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: SC 9/5/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C): 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WW	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92751692

PM: BV Due Date: 09/19/24

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP/N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1 ✓		1 ✓																					
2		2	1		2		1 ✓		1 ✓																					
3		2	1		2		1 ✓		1 ✓																					
4		2	1		2		1 ✓		1 ✓																					
5		2	1		2		1 ✓		1 ✓																					
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92751692

PM: BV **Due Date: 09/19/24**

CLIENT: 92-GA Power

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe - Total	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	App III/IV + Mg, Na, K, Fe - Dissolve			Residual Chlorine (Y/N)	92751692
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	Y				
1	MCD-B-98	WG	G	9/5/24	9:50		8	3		4		1					X	X	X	X	X	X	X				006
2	MCD-B-83	WG	G	9/6/24	9:56		9	3		5		1					X	X	X	X	X	X					007 EXTRA RADS
3	MCD-B-63	WG	G	9/6/24	10:55		7	3		3		1					X	X	X	X	X	X					008
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	[illegible]/WSP	9/6/24	1559		9/6/24 1559	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92751692

PM: BV **Due Date: 09/19/24**

CLIENT: 92-GA Power

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec

Sample Condition Upon Receipt

Client Name: Ga power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/16/24 SH

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.7

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

OMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

IENT NOTIFICATION/RESOLUTION

'erson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

ailtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/FZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG8H-40 mL VOA HCl (N/A)	VG3T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1	1																			2				
2		2	1				1	1																			4				
3		2	1				1	1																			2				
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email	[redacted]	Purchase Order #:		Pace Quote:	
Phone:	(470) 520-6176 Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Varg
Requested Due Date:	10 Day TAT	Project #:	31406440.M:D23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to right)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): *App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9613/9320	TDS	Alkalinity	Sulfide	Mercury			Residual Chlorine (Y/N)	92751692
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Y/N	N	N	N	N	N	N	N				
1	MCD-B-66	WG	G	9/9/24	11:10		7	3		3		1					X	X	X	X	X	X	X				
2	MCD-B-82	WG	G	9/9/24	12:55		7	3		3		1					X	X	X	X	X	X	X				
3	MCD-AP234-FD-5	WG	G	9/9/24	-		7	3		3		1					X	X	X	X	X	X	X				
4	MCD-B-106D	WG	G	9/9/24	14:06		7	3		3		1					X	X	X	X	X	X	X				
5	MCD-B-107D	WG	G	9/9/24	11:24		7	3		3		1					X	X	X	X	X	X	X				
6	MCD-AP234-FB-4	WG	G	9/9/24	12:00		7	3		3		1					X	X	X	X	X	X	X				
7	MCD-B-108D	WG	G	9/9/24	14:21		7	3		3		1					X	X	X	X	X	X	X				
8	MCD-AP234-EB-4	WG	G	9/9/24	16:00		7	3		3		1					X	X	X	X	X	X	X				
9	MCD-B-111D	WG	G	9/9/24	10:06		9	3		5		1					X	X	X	X	X	X	X				Extra Rads
10	MCD-B-120D	WG	G	9/9/24	15:17		7	3		3		1					X	X	X	X	X	X	X				
11	MCD-B-125D	WG	G	9/9/24	13:13		7	3		3		1					X	X	X	X	X	X	X				
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Task Code = MCD-CCR-ASSMT-2024S2	[illegible] WSP	9/10/24	950	Chase Sauder / COURIER NOW	9/10/24				
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl	Chase Sauder / Courier	9/10/24			9/10/24				

DATE Signed:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/10/24 JW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☑ No	☐ N/A	
Containers Intact?	☐ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG WD	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

lient GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGBU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DGBU-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1 ✓	1 ✓																						
2		2	1		2		1 ✓	1 ✓																						
3		2	1		2		1 ✓	1 ✓																						
4		2	1		2		1 ✓	1 ✓																						
5		2	1		2		1 ✓	1 ✓																						
6		2	1		2		1 ✓	1 ✓																						
7		2	1		2		1 ✓	1 ✓																						
8		2	1		2		1 ✓	1 ✓																						
9		2	1		4		1 ✓	1 ✓																						
10		2	1		2		1 ✓	1 ✓																						
11		2	1		2		1 ✓	1 ✓																						
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	10:48:00 AM	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	*App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury	Residual Chlorine (Y/N)	92751692
	Requested Analysis Filtered (Y/N)															N	N	N	N	N	N	N			
1	MCD-B-102D	WG	G	9/10/24	13:05		7	3		3		1					X	X	X	X	X	X	X		
2	MCD-B-88	WG	G	9/10/24	13:17		7	3		3		1					X	X	X	X	X	X	X		
3	MCD-B-104D	WG	G	9/10/24	11:40		7	3		3		1					X	X	X	X	X	X	X		
4	MCD-B-122D	WG	G	9/10/24	13:38		7	3		3		1					X	X	X	X	X	X	X		
5	MCD-AP234-FB-5	WQ	G	9/10/24	10:18		7	3		3		1					X	X	X	X	X	X	X		
6	MCD-B-101D	WG	G	9/10/24	10:40		7	3		3		1					X	X	X	X	X	X	X		
7	MCD-B-77	WG	G	9/11/24	10:36		7	3		3		1					X	X	X	X	X	X	X		
8	MCD-B-101D	WG	G	9/10/24	10:40		7	3		3		1					X	X	X	X	X	X	X		
9	MCD-B-56	WG	G	9/11/24	10:45		7	3		3		1					X	X	X	X	X	X	X		
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MADHUMANI / Pace Raleigh/NSF	9/11/24	1555		9/11/24	
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl						

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 9/11/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.0 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 4.9

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

1/S Sample MCD-B-1010 listed twice on CoC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden☐ Greenwood ☐ Huntersville ☐ Raleigh☐ Mechanicsville☐ Atlanta☐ Kernersville☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N-1 liter Plastic HNO3 (pH < 2)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1																							
2		2	1		2		1																							
3		2	1		2		1																							
4		2	1		2		1																							
5		2	1		2		1																							
6		2	1		2		1																							
7		2	1		2		1																							
8		2	1		2		1																							
9		2	1		2		1																							
10		2	1		2		1																							
11		2	1		2		1																							
12		2	1		2		1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC					BP1N																									
1		2	1		2		1	1	2																					
2							1																							
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6																														
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8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 08, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2024 and September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92751679001	**MCD-B-92**	Water	09/04/24 13:55	09/05/24 10:00
92751679002	**MCD-B-93**	Water	09/04/24 13:28	09/05/24 10:00
92751679003	**MCD-B-97**	Water	09/04/24 11:43	09/05/24 10:00
92751679004	**MCD-AP234-FD-4**	Water	09/04/24 00:00	09/05/24 10:00
92751679005	**MCD-AP234-EB-5**	Water	09/04/24 15:10	09/05/24 10:00
92751679006	**MCD-B-98**	Water	09/05/24 09:50	09/06/24 15:55
92751679007	**MCD-B-83**	Water	09/06/24 09:56	09/06/24 15:55
92751679008	**MCD-B-63**	Water	09/06/24 10:55	09/06/24 15:55
92751679009	**MCD-B-66**	Water	09/09/24 11:10	09/10/24 08:50
92751679010	**MCD-B-82**	Water	09/09/24 12:55	09/10/24 08:50
92751679011	**MCD-AP234-FD-5**	Water	09/09/24 00:00	09/10/24 08:50
92751679012	**MCD-B-106D**	Water	09/09/24 14:06	09/10/24 08:50
92751679013	**MCD-B-107D**	Water	09/09/24 11:24	09/10/24 08:50
92751679014	**MCD-AP234-FB-4**	Water	09/09/24 12:00	09/10/24 08:50
92751679015	**MCD-B-108D**	Water	09/09/24 14:21	09/10/24 08:50
92751679016	**MCD-AP234-EB-4**	Water	09/09/24 16:00	09/10/24 08:50
92751679017	**MCD-B-111D**	Water	09/09/24 10:06	09/10/24 08:50
92751679018	**MCD-B-120D**	Water	09/09/24 15:17	09/10/24 08:50
92751679019	**MCD-B-125D**	Water	09/09/24 13:13	09/10/24 08:50
92751679020	**MCD-B-102D**	Water	09/10/24 13:05	09/11/24 15:55
92751679021	**MCD-B-88**	Water	09/10/24 13:17	09/11/24 15:55
92751679022	**MCD-B-104D**	Water	09/10/24 11:40	09/11/24 15:55
92751679023	**MCD-B-122D**	Water	09/10/24 13:38	09/11/24 15:55
92751679024	**MCD-AP234-FB-5**	Water	09/10/24 10:18	09/11/24 15:55
92751679025	**MCD-B-101D**	Water	09/10/24 10:40	09/11/24 15:55
92751679026	**MCD-B-77**	Water	09/11/24 10:36	09/11/24 15:55
92751679027	**MCD-B-56**	Water	09/11/24 10:45	09/11/24 15:55

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92751679001	**MCD-B-92**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679002	**MCD-B-93**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679003	**MCD-B-97**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679004	**MCD-AP234-FD-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679005	**MCD-AP234-EB-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679006	**MCD-B-98**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679007	**MCD-B-83**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679008	**MCD-B-63**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679009	**MCD-B-66**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679010	**MCD-B-82**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679011	**MCD-AP234-FD-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679012	**MCD-B-106D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679013	**MCD-B-107D**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679014	**MCD-AP234-FB-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679015	**MCD-B-108D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679016	**MCD-AP234-EB-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679017	**MCD-B-111D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679018	**MCD-B-120D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679019	**MCD-B-125D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679020	**MCD-B-102D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679021	**MCD-B-88**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679022	**MCD-B-104D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679023	**MCD-B-122D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679024	**MCD-AP234-FB-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679025	**MCD-B-101D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
92751679026	**MCD-B-77**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751679027	**MCD-B-56**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-92 **Lab ID: 92751679001** Collected: 09/04/24 13:55 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.334 ± 0.168 (0.253) C:90% T:NA**	pCi/L	09/30/24 09:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.50 ± 0.719 (0.819) C:84% T:73%**	pCi/L	09/26/24 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.83 ± 0.887 (1.07)**	pCi/L	09/30/24 15:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-93 **Lab ID: 92751679002** Collected: 09/04/24 13:28 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.331 ± 0.166 (0.249) C:89% T:NA**	pCi/L	09/30/24 09:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.838U ± 0.538 (1.03) C:77% T:87%**	pCi/L	09/23/24 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17U ± 0.704 (1.28)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-97 **Lab ID: 92751679003** Collected: 09/04/24 11:43 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.574 ± 0.205 (0.227) C:93% T:NA**	pCi/L	09/30/24 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.39 ± 0.501 (0.695) C:87% T:78%**	pCi/L	09/26/24 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.96 ± 0.706 (0.922)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-AP234-FD-4 **Lab ID: 92751679004** Collected: 09/04/24 00:00 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.534 ± 0.184 (0.162) C:94% T:NA**	pCi/L	09/30/24 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.70 ± 0.758 (0.798) C:84% T:73%**	pCi/L	09/26/24 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.23 ± 0.942 (0.960)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-AP234-EB-5 **Lab ID: 92751679005** Collected: 09/04/24 15:10 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0747U ± 0.0875 (0.177) C:95% T:NA**	pCi/L	09/30/24 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.573 ± 0.321 (0.565) C:85% T:93%**	pCi/L	09/23/24 15:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.648U ± 0.409 (0.742)**	pCi/L	09/30/24 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-98 **Lab ID: 92751679006** Collected: 09/05/24 09:50 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.23 ± 0.311 (0.223) C:88% T:NA**	pCi/L	09/30/24 07:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.66 ± 0.660 (1.07) C:78% T:70%**	pCi/L	10/01/24 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.89 ± 0.971 (1.29)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-83 **Lab ID: 92751679007** Collected: 09/06/24 09:56 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0844U ± 0.0918 (0.175) C:81% T:NA**	pCi/L	09/30/24 09:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.519U ± 0.324 (0.594) C:87% T:84%**	pCi/L	09/26/24 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.603U ± 0.416 (0.769)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-63 **Lab ID: 92751679008** Collected: 09/06/24 10:55 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.555 ± 0.211 (0.239) C:79% T:NA**	pCi/L	09/30/24 09:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.473U ± 0.349 (0.673) C:83% T:83%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.03 ± 0.560 (0.912)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-66 **Lab ID: 92751679009** Collected: 09/09/24 11:10 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0642U ± 0.0936 (0.203) C:89% T:NA**	pCi/L	10/01/24 07:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.146U ± 0.297 (0.731) C:84% T:83%**	pCi/L	09/26/24 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0642U ± 0.391 (0.934)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-82 **Lab ID: 92751679010** Collected: 09/09/24 12:55 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.117U ± 0.114 (0.218) C:87% T:NA**	pCi/L	10/01/24 07:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.503U ± 0.426 (0.862) C:88% T:83%**	pCi/L	09/26/24 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.620U ± 0.540 (1.08)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-AP234-FD-5 **Lab ID: 92751679011** Collected: 09/09/24 00:00 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0491U ± 0.109 (0.256) C:87% T:NA**	pCi/L	10/01/24 07:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.742U ± 0.443 (0.822) C:88% T:82%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.791U ± 0.552 (1.08)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-106D **Lab ID: 92751679012** Collected: 09/09/24 14:06 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0579U ± 0.126 (0.293) C:74% T:NA**	pCi/L	10/01/24 07:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.480U ± 0.423 (0.866) C:88% T:84%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.538U ± 0.549 (1.16)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-107D **Lab ID: 92751679013** Collected: 09/09/24 11:24 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.161U ± 0.124 (0.225) C:89% T:NA**	pCi/L	10/01/24 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.607U ± 0.375 (0.701) C:92% T:81%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.768U ± 0.499 (0.926)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-AP234-FB-4 **Lab ID: 92751679014** Collected: 09/09/24 12:00 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0605U ± 0.0965 (0.215) C:89% T:NA**	pCi/L	10/01/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.470U ± 0.298 (0.545) C:86% T:90%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.531U ± 0.395 (0.760)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-108D **Lab ID: 92751679015** Collected: 09/09/24 14:21 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.289 ± 0.152 (0.221) C:85% T:NA**	pCi/L	10/01/24 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.447U ± 0.329 (0.635) C:84% T:87%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.736U ± 0.481 (0.856)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-AP234-EB-4 **Lab ID: 92751679016** Collected: 09/09/24 16:00 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0489U ± 0.0996 (0.231) C:84% T:NA**	pCi/L	10/01/24 07:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.188U ± 0.312 (0.679) C:86% T:86%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.237U ± 0.412 (0.910)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-111D **Lab ID: 92751679017** Collected: 09/09/24 10:06 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.12 ± 0.599 (0.212) C:91% T:NA**	pCi/L	10/01/24 07:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**5.18 ± 1.18 (0.951) C:83% T:77%**	pCi/L	10/01/24 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**8.30 ± 1.78 (1.16)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-120D **Lab ID: 92751679018** Collected: 09/09/24 15:17 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.552 ± 0.205 (0.207) C:84% T:NA**	pCi/L	09/30/24 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.73 ± 0.606 (0.901) C:84% T:77%**	pCi/L	10/01/24 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.28 ± 0.811 (1.11)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-125D **Lab ID: 92751679019** Collected: 09/09/24 13:13 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.631 ± 0.228 (0.239) C:86% T:NA**	pCi/L	10/01/24 07:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.980 ± 0.502 (0.910) C:88% T:83%**	pCi/L	09/26/24 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.61 ± 0.730 (1.15)**	pCi/L	10/02/24 14:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-102D **Lab ID: 92751679020** Collected: 09/10/24 13:05 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0701U ± 0.0991 (0.215) C:86% T:NA**	pCi/L	10/02/24 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.12 ± 0.563 (0.992) C:71% T:85%**	pCi/L	09/30/24 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19U ± 0.662 (1.21)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-88 **Lab ID: 92751679021** Collected: 09/10/24 13:17 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.385 ± 0.175 (0.225) C:88% T:NA**	pCi/L	10/02/24 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.31 ± 0.579 (0.992) C:73% T:86%**	pCi/L	09/30/24 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.70 ± 0.754 (1.22)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-104D **Lab ID: 92751679022** Collected: 09/10/24 11:40 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.01 ± 0.590 (0.256) C:86% T:NA**	pCi/L	10/02/24 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**5.93 ± 1.32 (0.901) C:68% T:86%**	pCi/L	09/30/24 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**8.94 ± 1.91 (1.16)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-122D **Lab ID: 92751679023** Collected: 09/10/24 13:38 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**4.08 ± 0.760 (0.251) C:77% T:NA**	pCi/L	10/02/24 13:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**6.21 ± 1.38 (0.891) C:76% T:85%**	pCi/L	10/01/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**10.3 ± 2.14 (1.14)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-AP234-FB-5 **Lab ID: 92751679024** Collected: 09/10/24 10:18 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0152U ± 0.0480 (0.162) C:83% T:NA**	pCi/L	10/02/24 13:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0190U ± 0.327 (0.764) C:75% T:86%**	pCi/L	10/01/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0190U ± 0.375 (0.926)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-101D **Lab ID: 92751679025** Collected: 09/10/24 10:40 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.184U ± 0.146 (0.273) C:80% T:NA**	pCi/L	10/02/24 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.489U ± 0.483 (0.995) C:76% T:72%**	pCi/L	10/01/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.673U ± 0.629 (1.27)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-77 **Lab ID: 92751679026** Collected: 09/11/24 10:36 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.310 ± 0.169 (0.257) C:76% T:NA**	pCi/L	10/02/24 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.581U ± 0.398 (0.752) C:74% T:84%**	pCi/L	10/01/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.891U ± 0.567 (1.01)**	pCi/L	10/03/24 15:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Sample: MCD-B-56 **Lab ID: 92751679027** Collected: 09/11/24 10:45 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.266 ± 0.149 (0.237) C:91% T:NA**	pCi/L	10/02/24 15:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.506U ± 0.412 (0.811) C:76% T:77%**	pCi/L	10/01/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.772U ± 0.561 (1.05)**	pCi/L	10/03/24 15:21	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch: 695873
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751679006

METHOD BLANK: 3389000 Matrix: Water
Associated Lab Samples: 92751679006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0102 ± 0.0929 (0.242) C:82% T:NA	pCi/L	09/30/24 07:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch: 696334 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751679020, 92751679021, 92751679022, 92751679023, 92751679024, 92751679025, 92751679026, 92751679027

METHOD BLANK: 3391001 Matrix: Water
Associated Lab Samples: 92751679020, 92751679021, 92751679022, 92751679023, 92751679024, 92751679025, 92751679026, 92751679027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0966 ± 0.111 (0.228) C:89% T:NA	pCi/L	10/02/24 08:40	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch:	697040	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92751679020, 92751679021, 92751679022

METHOD BLANK: 3394381 Matrix: Water

Associated Lab Samples: 92751679020, 92751679021, 92751679022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.181 ± 0.292 (0.633) C:82% T:92%	pCi/L	09/30/24 15:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch: 696331 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751679007, 92751679008, 92751679009, 92751679010, 92751679011, 92751679012, 92751679013, 92751679014, 92751679015, 92751679016, 92751679017, 92751679018, 92751679019

METHOD BLANK: 3390992 Matrix: Water
Associated Lab Samples: 92751679007, 92751679008, 92751679009, 92751679010, 92751679011, 92751679012, 92751679013, 92751679014, 92751679015, 92751679016, 92751679017, 92751679018, 92751679019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0454 ± 0.0712 (0.154) C:89% T:NA	pCi/L	09/30/24 09:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch: 697039
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751679006, 92751679007, 92751679008, 92751679009, 92751679010, 92751679011, 92751679012, 92751679013, 92751679014, 92751679015, 92751679016, 92751679017, 92751679018, 92751679019

METHOD BLANK: 3394379
Matrix: Water
Associated Lab Samples: 92751679006, 92751679007, 92751679008, 92751679009, 92751679010, 92751679011, 92751679012, 92751679013, 92751679014, 92751679015, 92751679016, 92751679017, 92751679018, 92751679019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0489 ± 0.301 (0.693) C:88% T:88%	pCi/L	09/26/24 15:01	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch:	698259	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92751679023, 92751679024, 92751679025, 92751679026, 92751679027

METHOD BLANK: 3399971 Matrix: Water

Associated Lab Samples: 92751679023, 92751679024, 92751679025, 92751679026, 92751679027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.177 ± 0.323 (0.708) C:79% T:89%	pCi/L	10/01/24 14:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch: 695548 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751679001, 92751679002, 92751679003, 92751679004, 92751679005

METHOD BLANK: 3387259 Matrix: Water
Associated Lab Samples: 92751679001, 92751679002, 92751679003, 92751679004, 92751679005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.175 ± 0.297 (0.647) C:85% T:86%	pCi/L	09/23/24 15:11	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

QC Batch:	695870	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92751679001, 92751679002, 92751679003, 92751679004, 92751679005

METHOD BLANK: 3388999 Matrix: Water

Associated Lab Samples: 92751679001, 92751679002, 92751679003, 92751679004, 92751679005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0274 ± 0.0932 (0.274) C:73% T:NA	pCi/L	09/30/24 09:02	

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(704)875-9092

QUALIFIERS

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Huntersville, NC 28078
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751679001	**MCD-B-92**	EPA 9315	695870		
92751679002	**MCD-B-93**	EPA 9315	695870		
92751679003	**MCD-B-97**	EPA 9315	695870		
92751679004	**MCD-AP234-FD-4**	EPA 9315	695870		
92751679005	**MCD-AP234-EB-5**	EPA 9315	695870		
92751679006	**MCD-B-98**	EPA 9315	695873		
92751679007	**MCD-B-83**	EPA 9315	696331		
92751679008	**MCD-B-63**	EPA 9315	696331		
92751679009	**MCD-B-66**	EPA 9315	696331		
92751679010	**MCD-B-82**	EPA 9315	696331		
92751679011	**MCD-AP234-FD-5**	EPA 9315	696331		
92751679012	**MCD-B-106D**	EPA 9315	696331		
92751679013	**MCD-B-107D**	EPA 9315	696331		
92751679014	**MCD-AP234-FB-4**	EPA 9315	696331		
92751679015	**MCD-B-108D**	EPA 9315	696331		
92751679016	**MCD-AP234-EB-4**	EPA 9315	696331		
92751679017	**MCD-B-111D**	EPA 9315	696331		
92751679018	**MCD-B-120D**	EPA 9315	696331		
92751679019	**MCD-B-125D**	EPA 9315	696331		
92751679020	**MCD-B-102D**	EPA 9315	696334		
92751679021	**MCD-B-88**	EPA 9315	696334		
92751679022	**MCD-B-104D**	EPA 9315	696334		
92751679023	**MCD-B-122D**	EPA 9315	696334		
92751679024	**MCD-AP234-FB-5**	EPA 9315	696334		
92751679025	**MCD-B-101D**	EPA 9315	696334		
92751679026	**MCD-B-77**	EPA 9315	696334		
92751679027	**MCD-B-56**	EPA 9315	696334		
92751679001	**MCD-B-92**	EPA 9320	695548		
92751679002	**MCD-B-93**	EPA 9320	695548		
92751679003	**MCD-B-97**	EPA 9320	695548		
92751679004	**MCD-AP234-FD-4**	EPA 9320	695548		
92751679005	**MCD-AP234-EB-5**	EPA 9320	695548		
92751679006	**MCD-B-98**	EPA 9320	697039		
92751679007	**MCD-B-83**	EPA 9320	697039		
92751679008	**MCD-B-63**	EPA 9320	697039		
92751679009	**MCD-B-66**	EPA 9320	697039		
92751679010	**MCD-B-82**	EPA 9320	697039		
92751679011	**MCD-AP234-FD-5**	EPA 9320	697039		
92751679012	**MCD-B-106D**	EPA 9320	697039		
92751679013	**MCD-B-107D**	EPA 9320	697039		
92751679014	**MCD-AP234-FB-4**	EPA 9320	697039		
92751679015	**MCD-B-108D**	EPA 9320	697039		
92751679016	**MCD-AP234-EB-4**	EPA 9320	697039		
92751679017	**MCD-B-111D**	EPA 9320	697039		
92751679018	**MCD-B-120D**	EPA 9320	697039		
92751679019	**MCD-B-125D**	EPA 9320	697039		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assess RADs
Pace Project No.: 92751679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751679020	**MCD-B-102D**	EPA 9320	697040		
92751679021	**MCD-B-88**	EPA 9320	697040		
92751679022	**MCD-B-104D**	EPA 9320	697040		
92751679023	**MCD-B-122D**	EPA 9320	698259		
92751679024	**MCD-AP234-FB-5**	EPA 9320	698259		
92751679025	**MCD-B-101D**	EPA 9320	698259		
92751679026	**MCD-B-77**	EPA 9320	698259		
92751679027	**MCD-B-56**	EPA 9320	698259		
92751679001	**MCD-B-92**	Total Radium Calculation	699390		
92751679002	**MCD-B-93**	Total Radium Calculation	699390		
92751679003	**MCD-B-97**	Total Radium Calculation	699390		
92751679004	**MCD-AP234-FD-4**	Total Radium Calculation	699390		
92751679005	**MCD-AP234-EB-5**	Total Radium Calculation	699390		
92751679006	**MCD-B-98**	Total Radium Calculation	700046		
92751679007	**MCD-B-83**	Total Radium Calculation	700046		
92751679008	**MCD-B-63**	Total Radium Calculation	700046		
92751679009	**MCD-B-66**	Total Radium Calculation	700046		
92751679010	**MCD-B-82**	Total Radium Calculation	700046		
92751679011	**MCD-AP234-FD-5**	Total Radium Calculation	700046		
92751679012	**MCD-B-106D**	Total Radium Calculation	700046		
92751679013	**MCD-B-107D**	Total Radium Calculation	700046		
92751679014	**MCD-AP234-FB-4**	Total Radium Calculation	700046		
92751679015	**MCD-B-108D**	Total Radium Calculation	700046		
92751679016	**MCD-AP234-EB-4**	Total Radium Calculation	700046		
92751679017	**MCD-B-111D**	Total Radium Calculation	700046		
92751679018	**MCD-B-120D**	Total Radium Calculation	700046		
92751679019	**MCD-B-125D**	Total Radium Calculation	700046		
92751679020	**MCD-B-102D**	Total Radium Calculation	700413		
92751679021	**MCD-B-88**	Total Radium Calculation	700413		
92751679022	**MCD-B-104D**	Total Radium Calculation	700413		
92751679023	**MCD-B-122D**	Total Radium Calculation	700413		
92751679024	**MCD-AP234-FB-5**	Total Radium Calculation	700413		
92751679025	**MCD-B-101D**	Total Radium Calculation	700413		
92751679026	**MCD-B-77**	Total Radium Calculation	700413		
92751679027	**MCD-B-56**	Total Radium Calculation	700413		

REPORT OF LABORATORY ANALYSIS

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WO# : 92751679

92751679

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Acp III/V + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N					
1	MCD-B-92	WG	G	9/4/24	13:55		7	3		3		1					X	X	X	X	X	X					
2	MCD-B-93	WG	G	9/4/24	13:28		7	3		3		1					X	X	X	X	X	X					
3	MCD-B-97	WG	G	9/4/24	11:43		7	3		3		1					X	X	X	X	X	X					
4	MCD-AP234-FD-4	WG	G	9/4/24	--		7	3		3		1					X	X	X	X	X	X					
5	MCD-AP234-EB-5	WQ	G	9/4/24	15:10		7	3		3		1					X	X	X	X	X	X					
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN / WSP	09/05/24	0845	[illegible] 834 / COURIER NOW	09/05/24	
	Elan 834 CNOW	09/05/24			9/5/24 1600	

DATE Signed:	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92751679

PM: BV Due Date: 09/26/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/5/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C): 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

WO#: 92751679

PM: BV Due Date: 09/26/24

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1 ✓		1 ✓																					
2		2	1		2		1 ✓		1 ✓																					
3		2	1		2		1 ✓		1 ✓																					
4		2	1		2		1 ✓		1 ✓																					
5		2	1		2		1 ✓		1 ✓																					
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO# : 92751679

PM: BV Due Date: 09/26/24
CLIENT: 92-GA Power

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe - Total	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	App III/IV + Mg, Na, K, Fe - Dissolved			Residual Chlorine (Y/N)	92751679
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	Y				
1	MCD-B-98	WG	G	9/5/24	9:50		8	3		4		1					X	X	X	X	X	X	X				006
2	MCD-B-83	WG	G	9/6/24	9:56		9	3		5		1					X	X	X	X	X	X					007 EXTRA RADS
3	MCD-B-63	WG	G	9/6/24	10:55		7	3		3		1					X	X	X	X	X	X					008
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN/WSP	9/6/24	1555		9/6/24 1555	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92751679

PM: BV **Due Date: 09/26/24**

CLIENT: 92-GA Power

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/6/24 SH

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 236 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) -0.4

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

OMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

IENT NOTIFICATION/RESOLUTION

erson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AGLM-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG3T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3 & 7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1	1																		2				
2		2	1				1	1																		4				
3		2	1				1	1																		2				
4																														
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12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 520-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	State / Location
	GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): *App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9313/9320	TDS	Alkalinity	Sulfide	Mercury			Residual Chlorine (Y/N)	92751679
																Y/N	N	N	N	N	N	N	N				
1	MCD-B-66	WG	G	9/9/24	11:10		7	3		3		1					X	X	X	X	X	X	X				
2	MCD-B-82	WG	G	9/9/24	12:55		7	3		3		1					X	X	X	X	X	X	X				
3	MCD-AP234-FD-5	WG	G	9/9/24	-		7	3		3		1					X	X	X	X	X	X	X				
4	MCD-B-106D	WG	G	9/9/24	14:06		7	3		3		1					X	X	X	X	X	X	X				
5	MCD-B-107D	WG	G	9/9/24	11:24		7	3		3		1					X	X	X	X	X	X	X				
6	MCD-AP234-FB-4	WQ	G	9/9/24	12:00		7	3		3		1					X	X	X	X	X	X	X				
7	MCD-B-108D	WG	G	9/9/24	14:21		7	3		3		1					X	X	X	X	X	X	X				
8	MCD-AP234-EB-4	WQ	G	9/9/24	16:00		7	3		3		1					X	X	X	X	X	X	X				
9	MCD-B-111D	WG	G	9/9/24	10:06		9	3		5		1					X	X	X	X	X	X	X				Extra Rads
10	MCD-B-120D	WG	G	9/9/24	15:17		7	3		3		1					X	X	X	X	X	X	X				
11	MCD-B-125D	WG	G	9/9/24	13:13		7	3		3		1					X	X	X	X	X	X	X				
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARC MANGANELLO / WSP	9/10/24	850	Chase Sanders / COURIER NOW	9/10/24	
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl	Chase Sanders / Courier Now	9/10/24			9/10/24	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/10/24 DM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☑ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG WD	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☐ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

lient GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPiN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1	1																						
2		2	1		2		1	1																						
3		2	1		2		1	1																						
4		2	1		2		1	1																						
5		2	1		2		1	1																						
6		2	1		2		1	1																						
7		2	1		2		1	1																						
8		2	1		2		1	1																						
9		2	1		4		1	1																						
10		2	1		2		1	1																						
11		2	1		2		1	1																						
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	10:40 fill AM	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test	Y/N	*App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9613/9320	TDS	Alkalinity	Sulfide	Mercury	Residual Chlorine (Y/N)	92751679
																Requested Analysis Filtered (Y/N)		N	N	N	N	N	N	N		
1	MCD-B-102D	WG	G	9/10/24	13:05		7	3		3		1						X	X	X	X	X	X	X		
2	MCD-B-88	WG	G	9/10/24	13:17		7	3		3		1						X	X	X	X	X	X	X		
3	MCD-B-104D	WG	G	9/10/24	11:40		7	3		3		1						X	X	X	X	X	X	X		
4	MCD-B-122D	WG	G	9/10/24	13:38		7	3		3		1						X	X	X	X	X	X	X		
5	MCD-AP234-FB-5	WQ	G	9/10/24	10:18		7	3		3		1						X	X	X	X	X	X	X		
6	MCD-B-101D	WG	G	9/10/24	10:40		7	3		3		1						X	X	X	X	X	X	X		
7	MCD-B-77	WG	G	9/11/24	10:36		7	3		3		1						X	X	X	X	X	X	X		
8	~~MCD-B-101D~~	WG	G	9/10/24	10:40		7	3		3		1						X	X	X	X	X	X	X		
9	MCD-B-56	WG	G	9/11/24	10:45		7	3		3		1						X	X	X	X	X	X	X		
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	[illegible]	9/11/24	1555	[illegible]	9/11/24	
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl						

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 9/11/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.0 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 4.9

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

#5 Sample MCD-B-101D listed twice on COC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2		1																						
2		2	1		2		1																						
3		2	1		2		1																						
4		2	1		2		1																						
5		2	1		2		1																						
6		2	1		2		1																						
7		2	1		2		1																						
8		2	1		2		1																						
9		2	1		2		1																						
10		2	1		2		1																						
11		2	1		2		1																						
12		2	1		2		1																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1	1																						
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/18/2024
Worklist:	81266
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3387259
MB concentration:	0.175
M/B 2 Sigma CSU:	0.297
MB MDC:	0.647
MB Numerical Performance Indicator:	1.16
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81266	LCSD81266
Count Date:	9/26/2024	9/26/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.156	35.156
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.817
Target Conc. (pCi/L, g, F):	4.291	4.302
Uncertainty (Calculated):	0.210	0.211
Result (pCi/L, g, F):	4.710	4.548
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.053	1.013
Numerical Performance Indicator:	0.76	0.47
Percent Recovery:	109.76%	105.73%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81266	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81266	
Sample Result (pCi/L, g, F):	4.710	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.053	
Sample Duplicate Result (pCi/L, g, F):	4.548	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.013	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.217	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.74%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

SLC 9/27/24

VAL
9/27/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/27/2024
Worklist:	81393
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3394379
MB concentration:	0.049
M/B 2 Sigma CSU:	0.301
MB MDC:	0.693
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81393	LCSD81393
Count Date:	10/1/2024	10/1/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.098	35.098
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.822	0.820
Target Conc. (pCi/L, g, F):	4.271	4.281
Uncertainty (Calculated):	0.209	0.210
Result (pCi/L, g, F):	3.623	5.102
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.883	1.200
Numerical Performance Indicator:	-1.40	1.32
Percent Recovery:	84.83%	119.16%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS81393	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81393	
Sample Result (pCi/L, g, F):	3.623	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.883	
Sample Duplicate Result (pCi/L, g, F):	5.102	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.200	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.945	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	33.66%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL 10/2/24

DLW 10/2/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	9/23/2024
Worklist:	81394
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3394381
MB concentration:	0.181
M/B 2 Sigma CSU:	0.292
MB MDC:	0.633
MB Numerical Performance Indicator:	1.22
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81394	LCSD81394
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.109	35.109
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.819
Target Conc. (pCi/L, g, F):	4.294	4.288
Uncertainty (Calculated):	0.210	0.210
Result (pCi/L, g, F):	4.321	3.326
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.992	0.853
Numerical Performance Indicator:	0.05	-2.15
Percent Recovery:	100.64%	77.55%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81394	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81394	
Sample Result (pCi/L, g, F):	4.321	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.992	
Sample Duplicate Result (pCi/L, g, F):	3.326	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.853	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.492	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.91%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10/1/24

DLW 10/2/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/26/2024
Worklist:	81486
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3399971
MB concentration:	0.177
M/B 2 Sigma CSU:	0.323
MB MDC:	0.708
MB Numerical Performance Indicator:	1.07
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81486	**LCSD81486**
Count Date:	10/1/2024	10/1/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.097	35.097
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.301	4.305
Uncertainty (Calculated):	0.211	0.211
Result (pCi/L, g, F):	3.154	3.325
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.825	0.820
Numerical Performance Indicator:	-2.64	-2.27
Percent Recovery:	73.33%	77.23%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81486	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81486	
Sample Result (pCi/L, g, F):	3.154	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.825	
Sample Duplicate Result (pCi/L, g, F):	3.325	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.820	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.288	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.19%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LAL
10/2/24

TLW
10/2/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/19/2024
Worklist:	81293
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3388999
MB concentration:	-0.027
M/B 2 Sigma CSU:	0.093
MB MDC:	0.274
MB Numerical Performance Indicator:	-0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81293	LCSD81293
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.501
Target Conc. (pCi/L, g, F):	4.970	4.994
Uncertainty (Calculated):	0.234	0.235
Result (pCi/L, g, F):	5.287	5.017
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.932	0.881
Numerical Performance Indicator:	0.65	0.05
Percent Recovery:	106.37%	100.45%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81293	92752186001
Duplicate Sample I.D.	LCSD81293	92752186001DUP
Sample Result (pCi/L, g, F):	5.287	1.064
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.932	0.283
Sample Duplicate Result (pCi/L, g, F):	5.017	0.961
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.261
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.413	0.527
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.73%	10.24%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

vsm 9/30/24

SLC 9/30/2024

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	SLC
Date:	9/17/2024
Worklist:	81294
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3389000
MB concentration:	0.010
M/B 2 Sigma CSU:	0.093
MB MDC:	0.242
MB Numerical Performance Indicator:	0.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81294	LCSD81294
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.508
Target Conc. (pCi/L, g, F):	4.962	4.929
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.708	4.636
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.832	0.839
Numerical Performance Indicator:	-0.58	-0.66
Percent Recovery:	94.87%	94.07%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81294	92751679006
Duplicate Sample I.D.	LCSD81294	92751679006DUP
Sample Result (pCi/L, g, F):	4.708	1.234
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.832	0.311
Sample Duplicate Result (pCi/L, g, F):	4.636	1.359
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.839	0.358
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.118	-0.519
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.86%	9.68%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

SLC 9/30/24

LAM 9/30/24

Quality Control Sample Performance Assessment

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www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/20/2024
Worklist:	81331
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3390992
MB concentration:	0.045
M/B 2 Sigma CSU:	0.071
MB MDC:	0.154
MB Numerical Performance Indicator:	1.25
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81331	LCSD81331
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.507	0.500
Target Conc. (pCi/L, g, F):	4.939	5.003
Uncertainty (Calculated):	0.232	0.235
Result (pCi/L, g, F):	5.275	5.529
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.927	0.981
Numerical Performance Indicator:	0.69	1.02
Percent Recovery:	106.79%	110.52%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81331	92751679018
Duplicate Sample I.D.	LCSD81331	92751679018DUP
Sample Result (pCi/L, g, F):	5.275	0.552
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.927	0.205
Sample Duplicate Result (pCi/L, g, F):	5.529	0.700
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.981	0.254
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.369	-0.884
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.43%	23.54%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

MRH
10-1-24

LAM 10/1/24

Quality Control Sample Performance Assessment

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Test:	Ra-226
Analyst:	SLC
Date:	9/19/2024
Worklist:	81332
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3391001
MB concentration:	0.097
M/B 2 Sigma CSU:	0.111
MB MDC:	0.228
MB Numerical Performance Indicator:	1.71
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81332	LCSD81332
Count Date:	10/2/2024	10/2/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.976	4.972
Uncertainty (Calculated):	0.234	0.234
Result (pCi/L, g, F):	4.582	5.011
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.809	0.881
Numerical Performance Indicator:	-0.92	0.09
Percent Recovery:	92.08%	100.80%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81332	92751679027
Duplicate Sample I.D.	LCSD81332	92751679027DUP
Sample Result (pCi/L, g, F):	4.582	0.266
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.809	0.149
Sample Duplicate Result (pCi/L, g, F):	5.011	0.191
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.135
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.704	0.727
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.04%	32.58%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
10/3/24

VAM 10/3/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 26, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 06, 2024 and September 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92752200001	**MCD-B-100**	Water	09/05/24 15:15	09/06/24 15:55
92752200002	**MCD-B-62**	Water	09/09/24 14:37	09/10/24 08:50

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92752200001	**MCD-B-100**	EPA 6010D	MJS2	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752200002	**MCD-B-62**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Sample: MCD-B-100 **Lab ID: 92752200001** Collected: 09/05/24 15:15 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**20.2**	mg/L	0.040	0.025	1	09/12/24 13:08	09/13/24 20:13	7439-89-6	
Potassium	**1.1**	mg/L	0.50	0.15	1	09/12/24 13:08	09/13/24 20:13	7440-09-7	
Sodium	**26.9**	mg/L	1.0	0.58	1	09/12/24 13:08	09/13/24 20:13	7440-23-5	
Calcium	**41.6**	mg/L	1.0	0.12	1	09/12/24 13:08	09/13/24 20:13	7440-70-2	
Magnesium	**41.9**	mg/L	0.050	0.012	1	09/12/24 13:08	09/13/24 20:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 14:25	09/16/24 20:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 14:25	09/16/24 20:28	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00047	1	09/11/24 14:25	09/16/24 20:28	7440-39-3	
Beryllium	**0.00053**	mg/L	0.00050	0.000094	1	09/11/24 14:25	09/16/24 20:28	7440-41-7	
Boron	**0.19**	mg/L	0.040	0.012	1	09/11/24 14:25	09/16/24 20:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 14:25	09/16/24 20:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 14:25	09/16/24 20:28	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00032	1	09/11/24 14:25	09/16/24 20:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 14:25	09/16/24 20:28	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.0016	1	09/11/24 14:25	09/16/24 20:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 14:25	09/16/24 20:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 14:25	09/16/24 20:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 14:25	09/16/24 20:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**581**	mg/L	25.0	25.0	1		09/11/24 14:07		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 19:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 19:01		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 19:01		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.1**	mg/L	1.0	0.60	1		09/10/24 13:13	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		09/10/24 13:13	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Sample: MCD-B-100 **Lab ID: 92752200001** Collected: 09/05/24 15:15 Received: 09/06/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**322**	mg/L	7.0	3.5	7		09/10/24 21:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Sample: MCD-B-62 **Lab ID: 92752200002** Collected: 09/09/24 14:37 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**6.2**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 22:56	7439-89-6	
Magnesium	**5.3**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 22:56	7439-95-4	
Potassium	**2.6**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 00:27	7440-09-7	
Sodium	**10.6**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 00:27	7440-23-5	
Calcium	**30.8**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 00:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:50	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:50	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:28	7440-41-7	
Boron	**0.059**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:50	7439-92-1	
Lithium	**0.0093J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**187**	mg/L	25.0	25.0	1		09/12/24 12:58		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**79.8**	mg/L	5.0	5.0	1		09/13/24 15:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/24 15:48		
Alkalinity, Total as CaCO3	**79.8**	mg/L	5.0	5.0	1		09/13/24 15:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		09/12/24 07:09	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		09/12/24 07:09	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Sample: MCD-B-62 **Lab ID: 92752200002** Collected: 09/09/24 14:37 Received: 09/10/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**44.2**	mg/L	1.0	0.50	1		09/12/24 07:09	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 882148
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752200001

METHOD BLANK: 4542901 Matrix: Water
Associated Lab Samples: 92752200001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/24 17:48	
Iron	mg/L	ND	0.040	0.025	09/13/24 17:48	
Magnesium	mg/L	ND	0.050	0.012	09/13/24 17:48	
Potassium	mg/L	ND	0.50	0.15	09/13/24 17:48	
Sodium	mg/L	ND	1.0	0.58	09/13/24 17:48	

LABORATORY CONTROL SAMPLE: 4542902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	
Iron	mg/L	1	0.97	97	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	112	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542903 4542904

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	33.0	1	1	32.5	33.5	-49	47	75-125	3	20	M1
Iron	mg/L	0.042	1	1	0.96	0.96	92	92	75-125	0	20	
Magnesium	mg/L	20.4	1	1	20.4	21.1	-3	67	75-125	3	20	M1
Potassium	mg/L	5.7	1	1	6.5	6.7	77	96	75-125	3	20	
Sodium	mg/L	75.7	1	1	73.6	76.3	-204	57	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 882611
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752200002

METHOD BLANK: 4545809 Matrix: Water
Associated Lab Samples: 92752200002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/16/24 23:10	
Iron	mg/L	ND	0.040	0.025	09/17/24 21:44	
Magnesium	mg/L	ND	0.050	0.012	09/17/24 21:44	
Potassium	mg/L	ND	0.50	0.15	09/16/24 23:10	
Sodium	mg/L	ND	1.0	0.58	09/16/24 23:10	

LABORATORY CONTROL SAMPLE: 4545810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.94	94	80-120	
Potassium	mg/L	1	1.2	119	80-120	
Sodium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545811 4545812

Parameter	Units	92751692012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	26.3	1	1	27.7	27.6	140	131	75-125	0	20	M1
Iron	mg/L	ND	1	1	0.97	0.97	97	97	75-125	0	20	
Magnesium	mg/L	12.2	1	1	13.4	13.6	120	140	75-125	2	20	M1
Potassium	mg/L	3.7	1	1	4.8	4.8	117	109	75-125	2	20	
Sodium	mg/L	13.2	1	1	14.5	14.6	123	139	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 881825
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92752200001

METHOD BLANK: 4541064 Matrix: Water
Associated Lab Samples: 92752200001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/16/24 18:53	
Arsenic	mg/L	ND	0.0050	0.00084	09/16/24 18:53	
Barium	mg/L	ND	0.0050	0.00047	09/16/24 18:53	
Beryllium	mg/L	ND	0.00050	0.000094	09/16/24 18:53	
Boron	mg/L	ND	0.040	0.012	09/16/24 18:53	
Cadmium	mg/L	ND	0.00050	0.00010	09/16/24 18:53	
Chromium	mg/L	ND	0.0050	0.0019	09/16/24 18:53	
Cobalt	mg/L	ND	0.0050	0.00032	09/16/24 18:53	
Lead	mg/L	ND	0.0010	0.00016	09/16/24 18:53	
Lithium	mg/L	ND	0.030	0.0016	09/16/24 18:53	
Molybdenum	mg/L	ND	0.010	0.00062	09/16/24 18:53	
Selenium	mg/L	ND	0.0050	0.00096	09/16/24 18:53	
Thallium	mg/L	ND	0.0010	0.00038	09/16/24 18:53	

LABORATORY CONTROL SAMPLE: 4541065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541066 4541067

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541066 4541067

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	94	95	75-125	1	20	
Beryllium	mg/L	0.0027	0.1	0.1	0.089	0.091	86	88	75-125	2	20	
Boron	mg/L	1.1	1	1	1.9	1.9	76	78	75-125	1	20	
Cadmium	mg/L	0.00098	0.1	0.1	0.094	0.095	93	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Cobalt	mg/L	0.010	0.1	0.1	0.10	0.10	92	93	75-125	1	20	
Lead	mg/L	0.00021J	0.1	0.1	0.093	0.093	93	92	75-125	0	20	
Lithium	mg/L	0.0099J	0.1	0.1	0.098	0.10	88	90	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 882511
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92752200002

METHOD BLANK: 4545096 Matrix: Water
Associated Lab Samples: 92752200002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/17/24 16:08	
Arsenic	mg/L	ND	0.0050	0.00084	09/17/24 16:08	
Barium	mg/L	ND	0.0050	0.00047	09/17/24 16:08	
Beryllium	mg/L	ND	0.00050	0.000094	09/17/24 16:08	
Boron	mg/L	ND	0.040	0.012	09/17/24 16:08	
Cadmium	mg/L	ND	0.00050	0.00010	09/17/24 16:08	
Chromium	mg/L	ND	0.0050	0.0019	09/17/24 16:08	
Cobalt	mg/L	ND	0.0050	0.00032	09/17/24 16:08	
Lead	mg/L	ND	0.0010	0.00016	09/17/24 16:08	
Lithium	mg/L	ND	0.030	0.0016	09/17/24 16:08	
Molybdenum	mg/L	ND	0.010	0.00062	09/17/24 16:08	
Selenium	mg/L	ND	0.0050	0.00096	09/17/24 16:08	
Thallium	mg/L	ND	0.0010	0.00038	09/17/24 16:08	

LABORATORY CONTROL SAMPLE: 4545097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Arsenic	mg/L	0.0027J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.023	0.1	0.1	0.12	0.13	101	104	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	0.34	1	1	1.3	1.4	97	101	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	97	75-125	2	20	
Cobalt	mg/L	0.0021J	0.1	0.1	0.10	0.098	99	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.092	96	92	75-125	3	20	
Lithium	mg/L	0.016J	0.1	0.1	0.11	0.11	97	97	75-125	0	20	
Molybdenum	mg/L	0.0023J	0.1	0.1	0.098	0.10	96	99	75-125	3	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.091	94	91	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 883894
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752200001, 92752200002

METHOD BLANK: 4551831 Matrix: Water
Associated Lab Samples: 92752200001, 92752200002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/20/24 08:16	

LABORATORY CONTROL SAMPLE: 4551832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4551833 4551834

Parameter	Units	92751692001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	93	88	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 881824
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92752200001

METHOD BLANK: 4541058 Matrix: Water
Associated Lab Samples: 92752200001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/24 14:03	

LABORATORY CONTROL SAMPLE: 4541059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	422	106	80-120	

SAMPLE DUPLICATE: 4541060

Parameter	Units	92752185001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	511	532	4	10	

SAMPLE DUPLICATE: 4541061

Parameter	Units	92751700004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1290	1270	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 882138
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92752200002

METHOD BLANK: 4542861 Matrix: Water
Associated Lab Samples: 92752200002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/12/24 12:45	

LABORATORY CONTROL SAMPLE: 4542862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	402	100	80-120	

SAMPLE DUPLICATE: 4542863

Parameter	Units	92751700020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	444	459	3	10	

SAMPLE DUPLICATE: 4542864

Parameter	Units	92751692017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	528	539	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 881617
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752200001

METHOD BLANK: 4540224 Matrix: Water
Associated Lab Samples: 92752200001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/24 16:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 16:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 16:20	

LABORATORY CONTROL SAMPLE: 4540225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

LABORATORY CONTROL SAMPLE: 4540226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540227 4540228

Parameter	Units	92752128010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	68.8	50	50	84.8	84.3	32	31	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540229 4540230

Parameter	Units	92752128011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	37.0	50	50	71.7	72.0	69	70	80-120	0	25	M1

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 882135
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752200002

METHOD BLANK: 4542839 Matrix: Water
Associated Lab Samples: 92752200002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/13/24 14:21	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 14:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/24 14:21	

LABORATORY CONTROL SAMPLE: 4542840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4542841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542842 4542843

Parameter	Units	92751692016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.6	50.5	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542844 4542845

Parameter	Units	92751692017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	116	50	50	164	166	95	100	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 881395
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752200001

METHOD BLANK: 4539200 Matrix: Water
Associated Lab Samples: 92752200001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/10/24 04:35	

LABORATORY CONTROL SAMPLE: 4539201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539210 4539211

Parameter	Units	92751658009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.56	99	111	80-120	11	10	R1

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 882376
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752200002

METHOD BLANK: 4544511 Matrix: Water
Associated Lab Samples: 92752200002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/14/24 03:31	

LABORATORY CONTROL SAMPLE: 4544512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544513 4544514

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.49	94	98	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544515 4544516

Parameter	Units	92751692016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.57	91	113	80-120	22	10	R1

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 881369
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752200001

METHOD BLANK: 4539017 Matrix: Water
Associated Lab Samples: 92752200001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/24 21:38	
Fluoride	mg/L	ND	0.10	0.050	09/09/24 21:38	
Sulfate	mg/L	ND	1.0	0.50	09/09/24 21:38	

LABORATORY CONTROL SAMPLE: 4539018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	52.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539019 4539020

Parameter	Units	92752167002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.3	50	50	69.0	73.0	99	107	90-110	6	10	
Fluoride	mg/L	0.16	2.5	2.5	2.7	3.0	103	112	90-110	8	10	M1
Sulfate	mg/L	193	50	50	237	237	89	89	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539021 4539022

Parameter	Units	92751692006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	55.1	59.2	99	108	90-110	7	10	
Fluoride	mg/L	0.12	2.5	2.5	2.8	3.0	106	116	90-110	9	10	M1
Sulfate	mg/L	155	50	50	195	195	80	80	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

QC Batch: 881917
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92752200002

METHOD BLANK: 4541849 Matrix: Water
Associated Lab Samples: 92752200002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/11/24 21:39	
Fluoride	mg/L	ND	0.10	0.050	09/11/24 21:39	
Sulfate	mg/L	ND	1.0	0.50	09/11/24 21:39	

LABORATORY CONTROL SAMPLE: 4541850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.7	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541851 4541852

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.1	50	50	52.3	53.5	100	103	90-110	2	10	
Fluoride	mg/L	0.093J	2.5	2.5	2.9	3.0	113	115	90-110	2	10	M1
Sulfate	mg/L	89.1	50	50	118	122	58	65	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541853 4541854

Parameter	Units	92751692014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.2	51.2	100	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.3	51.3	100	102	90-110	2	10	

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92752200

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92752200001	**MCD-B-100**	EPA 3010A	882148	EPA 6010D	882244
92752200002	**MCD-B-62**	EPA 3010A	882611	EPA 6010D	882633
92752200001	**MCD-B-100**	EPA 3005A	881825	EPA 6020B	881952
92752200002	**MCD-B-62**	EPA 3005A	882511	EPA 6020B	882626
92752200001	**MCD-B-100**	EPA 7470A	883894	EPA 7470A	884113
92752200002	**MCD-B-62**	EPA 7470A	883894	EPA 7470A	884113
92752200001	**MCD-B-100**	SM 2540C-2015	881824		
92752200002	**MCD-B-62**	SM 2540C-2015	882138		
92752200001	**MCD-B-100**	SM 2320B-2011	881617		
92752200002	**MCD-B-62**	SM 2320B-2011	882135		
92752200001	**MCD-B-100**	SM 4500-S2D-2011	881395		
92752200002	**MCD-B-62**	SM 4500-S2D-2011	882376		
92752200001	**MCD-B-100**	EPA 300.0 Rev 2.1 1993	881369		
92752200002	**MCD-B-62**	EPA 300.0 Rev 2.1 1993	881917		

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WO# : 92752200

92752200

CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be comp

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-1 and AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92752200
1	MCD-B-100	WG	G	9/5/24	15:15		7	3		3		1				N	X	X	X	X	X	X					001
2																N											
3																N											
4																N											
5																N											
6																N											
7																N											
8																N											
9																N											
10																N											
11																N											
12																N											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MACKMANN/WSP	9/6/24	1555		9/6/24 1555	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92752200

PM: BV **Due Date: 09/23/24**

CLIENT: 92-GA Power

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/6/24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 236

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) 0.6

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Jaltrax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9T-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VFH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC								1																						
1		2	1				1	1	1	9/6/24		1															2			
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road
	Atlanta, GA 30339
Email:	[illegible]
Phone: (470) 930-6176	Fax:
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To:	Jaja Abraham
Copy To:	WSP
Purchase Order #:	
Project Name:	Plant McD AP-1 and AP-2 [illegible] assessment
Project #:	31406340.MED23

Section C
Invoice Information:

Attention:	[illegible]@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Reanue Wang
Pace Profile #:	

Regulatory Agency	State / Location
	GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	DATE	TIME	# OF CONTAINERS	Preservatives	Y/N	Analyses Test	Has dual Order ne (Y/N)	9275220
1	MCD-B-62	9/9/24	1437	7	Unpreserved - Ice, H2SO4, HNO3 + Ice, HCl, NaOH + Zn Acetate, Na2S2O3, Methanol, Other	N	App IIIIV metals - Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mn, Mo, Ni, Pb, Sb, Se, Sr, Tl, U, V, Zn		X
						N	Cl, F, SO4		X
						N	Radium 9613/9320		X
						N	TDS		X
						N	Alkalinity		X
						N	Sulfide		X
						N	Mercury		X
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE
Task Code = MCD-CCR-ASSMT-2024S2	[illegible]	9/10/24	0850	[illegible]	9/10/24
*App IIIIV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl	[illegible]	9/10/24			9/10/24

SAMPLE CONDITIONS			
Temp in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DATE Signed:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/10 kra

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

lient GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1 ✓	1 ✓																						
2																														
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 08, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 06, 2024 and September 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92752198001	**MCD-B-100**	Water	09/05/24 15:15	09/06/24 15:55
92752198002	**MCD-B-62**	Water	09/09/24 14:37	09/10/24 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92752198001	**MCD-B-100**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92752198002	**MCD-B-62**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

Sample: MCD-B-100 **Lab ID: 92752198001** Collected: 09/05/24 15:15 Received: 09/06/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.110U ± 0.108 (0.209) C:90% T:NA**	pCi/L	09/30/24 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.330U ± 0.472 (1.01) C:78% T:85%**	pCi/L	09/30/24 15:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.440U ± 0.580 (1.22)**	pCi/L	10/01/24 14:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

Sample: MCD-B-62 **Lab ID: 92752198002** Collected: 09/09/24 14:37 Received: 09/10/24 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.831 ± 0.243 (0.205) C:89% T:NA**	pCi/L	10/02/24 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.31 ± 0.463 (0.616) C:79% T:88%**	pCi/L	09/30/24 15:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.14 ± 0.706 (0.821)**	pCi/L	10/03/24 15:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

QC Batch: 697040
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92752198001, 92752198002

METHOD BLANK: 3394381
Matrix: Water
Associated Lab Samples: 92752198001, 92752198002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.181 ± 0.292 (0.633) C:82% T:92%	pCi/L	09/30/24 15:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

QC Batch: 696334
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92752198002

METHOD BLANK: 3391001 Matrix: Water
Associated Lab Samples: 92752198002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0966 ± 0.111 (0.228) C:89% T:NA	pCi/L	10/02/24 08:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

QC Batch: 696331
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92752198001

METHOD BLANK: 3390992 Matrix: Water
Associated Lab Samples: 92752198001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0454 ± 0.0712 (0.154) C:89% T:NA	pCi/L	09/30/24 09:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-1234 Assess- RADs
Pace Project No.: 92752198

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92752198001	**MCD-B-100**	EPA 9315	696331		
92752198002	**MCD-B-62**	EPA 9315	696334		
92752198001	**MCD-B-100**	EPA 9320	697040		
92752198002	**MCD-B-62**	EPA 9320	697040		
92752198001	**MCD-B-100**	Total Radium Calculation	699703		
92752198002	**MCD-B-62**	Total Radium Calculation	700413		

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WO# : 92752198

92752198

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be com

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-1 and AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92752198
																N	N	N	N	N	N	N				
1	MCD-B-100	WG	G	9/5/24	15:15		7	3		3		1				X	X	X	X	X	X					001
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MACKMANN/WSP	9/6/24	1555		9/6/24 1555	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

WO#: 92752198

PM: BV **Due Date: 09/30/24**

CLIENT: 92-GA Power

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ M

Sample Condition Upon Receipt

Client Name: Ga power

Project #

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/6/24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 236

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Jaltrax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	VGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG3U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-MFM/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1	X	X	9/6/24		X														X				
2																														
3																														
4																														
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12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone: (470) 520-6176	Fax:	Project Name:	Plant McD AP-1 and AP-2S4 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test / Requested Analysis Filtered (Y/N) Y/N	*App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury		Residual Chlorine (Y/N)	92752198
																Y/N	N	N	N	N	N	N	N		
1	MCD-B-62	WG	G	9/9/24	14:37		7	3		3		1					X	X	X	X	X	X	X		
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARKMAN / WSP	9/10/24	850	Alexa Lawhon / COURIER NOW	9/10/24	
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl	Shan Rawlins CSSI	9/10/24			9/10/24	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/10/24 am

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

lient GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1	1																						
2																														
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	9/23/2024
Worklist:	81394
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3394381
MB concentration:	0.181
M/B 2 Sigma CSU:	0.292
MB MDC:	0.633
MB Numerical Performance Indicator:	1.22
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81394	LCSD81394
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.109	35.109
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.819
Target Conc. (pCi/L, g, F):	4.294	4.288
Uncertainty (Calculated):	0.210	0.210
Result (pCi/L, g, F):	4.321	3.326
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.992	0.853
Numerical Performance Indicator:	0.05	-2.15
Percent Recovery:	100.64%	77.55%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81394	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81394	
Sample Result (pCi/L, g, F):	4.321	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.992	
Sample Duplicate Result (pCi/L, g, F):	3.326	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.853	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.492	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.91%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10/1/24
DLW 10/2/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/20/2024
Worklist:	81331
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3390992
MB concentration:	0.045
M/B 2 Sigma CSU:	0.071
MB MDC:	0.154
MB Numerical Performance Indicator:	1.25
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81331	LCSD81331
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.507	0.500
Target Conc. (pCi/L, g, F):	4.939	5.003
Uncertainty (Calculated):	0.232	0.235
Result (pCi/L, g, F):	5.275	5.529
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.927	0.981
Numerical Performance Indicator:	0.69	1.02
Percent Recovery:	106.79%	110.52%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81331	92751679018
Duplicate Sample I.D.	LCSD81331	92751679018DUP
Sample Result (pCi/L, g, F):	5.275	0.552
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.927	0.205
Sample Duplicate Result (pCi/L, g, F):	5.529	0.700
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.981	0.254
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.369	-0.884
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.43%	23.54%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

MRH
10-1-24

LAM 10/1/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/19/2024
Worklist:	81332
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3391001
MB concentration:	0.097
M/B 2 Sigma CSU:	0.111
MB MDC:	0.228
MB Numerical Performance Indicator:	1.71
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81332	LCSD81332
Count Date:	10/2/2024	10/2/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.976	4.972
Uncertainty (Calculated):	0.234	0.234
Result (pCi/L, g, F):	4.582	5.011
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.809	0.881
Numerical Performance Indicator:	-0.92	0.09
Percent Recovery:	92.08%	100.80%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81332	92751679027
Duplicate Sample I.D.	LCSD81332	92751679027DUP
Sample Result (pCi/L, g, F):	4.582	0.266
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.809	0.149
Sample Duplicate Result (pCi/L, g, F):	5.011	0.191
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.135
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.704	0.727
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.04%	32.58%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
10/3/24

VAM 10/3/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 26, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD Background
Pace Project No.: 92751673

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2024 and September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD Background
Pace Project No.: 92751673

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant McD Background
Pace Project No.: 92751673

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92751673001	**MCD-DGWA-70A**	Water	09/04/24 11:25	09/05/24 10:00
92751673002	**MCD-DGWA-71**	Water	09/04/24 10:06	09/05/24 10:00
92751673003	**MCD-DGWA-53**	Water	09/11/24 10:58	09/11/24 15:55

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SAMPLE ANALYTE COUNT

Project: Plant McD Background
Pace Project No.: 92751673

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92751673001	**MCD-DGWA-70A**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751673002	**MCD-DGWA-71**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92751673003	**MCD-DGWA-53**	EPA 6010D	AJM	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92751673

Sample: MCD-DGWA-70A **Lab ID: 92751673001** Collected: 09/04/24 11:25 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 20:47	7439-89-6	
Potassium	**1.7**	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 20:47	7440-09-7	
Sodium	**3.3**	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 20:47	7440-23-5	
Calcium	**6.3**	mg/L	1.0	0.12	1	09/06/24 13:14	09/10/24 20:47	7440-70-2	
Magnesium	**2.6**	mg/L	0.050	0.012	1	09/06/24 13:14	09/11/24 14:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:04	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:04	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/12/24 09:00	09/12/24 12:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**61.0**	mg/L	25.0	25.0	1		09/10/24 12:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.9**	mg/L	5.0	5.0	1		09/10/24 20:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 20:19		
Alkalinity, Total as CaCO3	**28.9**	mg/L	5.0	5.0	1		09/10/24 20:19		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.2**	mg/L	1.0	0.60	1		09/07/24 21:20	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		09/07/24 21:20	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92751673

Sample: MCD-DGWA-70A **Lab ID: 92751673001** Collected: 09/04/24 11:25 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/07/24 21:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92751673

Sample: MCD-DGWA-71 **Lab ID: 92751673002** Collected: 09/04/24 10:06 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Magnesium	**0.97**	mg/L	0.050	0.012	1	09/06/24 13:14	09/11/24 14:31	7439-95-4	
Iron	**0.027J**	mg/L	0.040	0.025	1	09/06/24 13:14	09/10/24 20:52	7439-89-6	
Potassium	**0.74**	mg/L	0.50	0.15	1	09/06/24 13:14	09/10/24 20:52	7440-09-7	
Sodium	**8.0**	mg/L	1.0	0.58	1	09/06/24 13:14	09/10/24 20:52	7440-23-5	
Calcium	**6.5**	mg/L	1.0	0.12	1	09/06/24 13:14	09/10/24 20:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/06/24 12:12	09/09/24 17:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/06/24 12:12	09/09/24 17:08	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00047	1	09/06/24 12:12	09/09/24 17:08	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	09/06/24 12:12	09/09/24 17:08	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	09/06/24 12:12	09/09/24 17:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/06/24 12:12	09/09/24 17:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/06/24 12:12	09/09/24 17:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/06/24 12:12	09/09/24 17:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/06/24 12:12	09/09/24 17:08	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/06/24 12:12	09/09/24 17:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/06/24 12:12	09/09/24 17:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/06/24 12:12	09/09/24 17:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/06/24 12:12	09/09/24 17:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/12/24 09:00	09/12/24 12:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**97.0**	mg/L	25.0	25.0	1		09/10/24 12:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.3**	mg/L	5.0	5.0	1		09/10/24 20:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/10/24 20:25		
Alkalinity, Total as CaCO3	**15.3**	mg/L	5.0	5.0	1		09/10/24 20:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.4**	mg/L	1.0	0.60	1		09/07/24 22:07	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		09/07/24 22:07	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92751673

Sample: MCD-DGWA-71 **Lab ID: 92751673002** Collected: 09/04/24 10:06 Received: 09/05/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**9.9**	mg/L	1.0	0.50	1		09/07/24 22:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92751673

Sample: MCD-DGWA-53 **Lab ID: 92751673003** Collected: 09/11/24 10:58 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.5**	mg/L	0.50	0.15	1	09/13/24 18:33	09/17/24 00:44	7440-09-7	
Sodium	**7.9**	mg/L	1.0	0.58	1	09/13/24 18:33	09/17/24 00:44	7440-23-5	
Calcium	**10.6**	mg/L	1.0	0.12	1	09/13/24 18:33	09/17/24 00:44	7440-70-2	
Iron	**1.7**	mg/L	0.040	0.025	1	09/13/24 18:33	09/17/24 23:10	7439-89-6	
Magnesium	**3.8**	mg/L	0.050	0.012	1	09/13/24 18:33	09/17/24 23:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/13/24 13:55	09/17/24 18:54	7440-36-0	
Arsenic	**0.00091J**	mg/L	0.0050	0.00084	1	09/13/24 13:55	09/17/24 18:54	7440-38-2	
Barium	**0.084**	mg/L	0.0050	0.00047	1	09/13/24 13:55	09/17/24 18:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/13/24 13:55	09/19/24 16:39	7440-41-7	
Boron	**0.042**	mg/L	0.040	0.012	1	09/13/24 13:55	09/17/24 18:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/13/24 13:55	09/19/24 16:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/13/24 13:55	09/19/24 16:39	7440-47-3	
Cobalt	**0.0052**	mg/L	0.0050	0.00032	1	09/13/24 13:55	09/19/24 16:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/13/24 13:55	09/17/24 18:54	7439-92-1	
Lithium	**0.0078J**	mg/L	0.030	0.0016	1	09/13/24 13:55	09/19/24 16:39	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	09/13/24 13:55	09/17/24 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/13/24 13:55	09/17/24 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/13/24 13:55	09/17/24 18:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/24 16:00	09/20/24 09:47	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**54.4**	mg/L	5.0	5.0	1		09/17/24 20:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/17/24 20:35		
Alkalinity, Total as CaCO3	**54.4**	mg/L	5.0	5.0	1		09/17/24 20:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**122**	mg/L	25.0	25.0	1		09/16/24 17:34		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/14/24 03:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/13/24 18:45	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		09/13/24 18:45	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92751673

Sample: MCD-DGWA-53 **Lab ID: 92751673003** Collected: 09/11/24 10:58 Received: 09/11/24 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**11.5**	mg/L	1.0	0.50	1		09/13/24 18:45	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 880838
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751673001, 92751673002

METHOD BLANK: 4536493 Matrix: Water
Associated Lab Samples: 92751673001, 92751673002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/10/24 18:00	
Iron	mg/L	ND	0.040	0.025	09/10/24 18:00	
Magnesium	mg/L	ND	0.050	0.012	09/11/24 13:17	
Potassium	mg/L	ND	0.50	0.15	09/10/24 18:00	
Sodium	mg/L	ND	1.0	0.58	09/10/24 18:00	

LABORATORY CONTROL SAMPLE: 4536494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536495 4536496

Parameter	Units	92751658002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	92.0	1	1	90.7	89.9	-130	-209	75-125	1	20	M1
Iron	mg/L	11.6	1	1	12.3	12.2	63	58	75-125	0	20	M1
Magnesium	mg/L	27.0	1	1	23.9	24.3	-314	-271	75-125	2	20	M1
Potassium	mg/L	3.0	1	1	3.8	3.9	87	93	75-125	2	20	
Sodium	mg/L	13.8	1	1	14.3	14.6	50	81	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 882611
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751673003

METHOD BLANK: 4545809 Matrix: Water
Associated Lab Samples: 92751673003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/16/24 23:10	
Iron	mg/L	ND	0.040	0.025	09/17/24 21:44	
Magnesium	mg/L	ND	0.050	0.012	09/17/24 21:44	
Potassium	mg/L	ND	0.50	0.15	09/16/24 23:10	
Sodium	mg/L	ND	1.0	0.58	09/16/24 23:10	

LABORATORY CONTROL SAMPLE: 4545810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.94	94	80-120	
Potassium	mg/L	1	1.2	119	80-120	
Sodium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545811 4545812

Parameter	Units	92751692012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	26.3	1	1	27.7	27.6	140	131	75-125	0	20	M1
Iron	mg/L	ND	1	1	0.97	0.97	97	97	75-125	0	20	
Magnesium	mg/L	12.2	1	1	13.4	13.6	120	140	75-125	2	20	M1
Potassium	mg/L	3.7	1	1	4.8	4.8	117	109	75-125	2	20	
Sodium	mg/L	13.2	1	1	14.5	14.6	123	139	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 880813
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751673001, 92751673002

METHOD BLANK: 4536258 Matrix: Water
Associated Lab Samples: 92751673001, 92751673002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/09/24 15:53	
Arsenic	mg/L	0.0014J	0.0050	0.00084	09/09/24 15:53	
Barium	mg/L	ND	0.0050	0.00047	09/09/24 15:53	
Beryllium	mg/L	ND	0.00050	0.000094	09/09/24 15:53	
Boron	mg/L	ND	0.040	0.012	09/09/24 15:53	
Cadmium	mg/L	ND	0.00050	0.00010	09/09/24 15:53	
Chromium	mg/L	ND	0.0050	0.0019	09/09/24 15:53	
Cobalt	mg/L	ND	0.0050	0.00032	09/09/24 15:53	
Lead	mg/L	ND	0.0010	0.00016	09/09/24 15:53	
Lithium	mg/L	ND	0.030	0.0016	09/09/24 15:53	
Molybdenum	mg/L	ND	0.010	0.00062	09/09/24 15:53	
Selenium	mg/L	ND	0.0050	0.00096	09/09/24 15:53	
Thallium	mg/L	ND	0.0010	0.00038	09/09/24 15:53	

LABORATORY CONTROL SAMPLE: 4536259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536260 4536261

Parameter	Units	92751658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.097	95	97	75-125	2	20	
Arsenic	mg/L	0.00093J	0.1	0.1	0.096	0.095	95	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4536260 4536261

Parameter	Units	92751658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.067	0.1	0.1	0.16	0.16	91	92	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Boron	mg/L	1.5	1	1	2.4	2.4	89	89	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.0019J	0.1	0.1	0.095	0.095	93	93	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.093	94	93	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 882511
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751673003

METHOD BLANK: 4545096 Matrix: Water
Associated Lab Samples: 92751673003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/17/24 16:08	
Arsenic	mg/L	ND	0.0050	0.00084	09/17/24 16:08	
Barium	mg/L	ND	0.0050	0.00047	09/17/24 16:08	
Beryllium	mg/L	ND	0.00050	0.000094	09/17/24 16:08	
Boron	mg/L	ND	0.040	0.012	09/17/24 16:08	
Cadmium	mg/L	ND	0.00050	0.00010	09/17/24 16:08	
Chromium	mg/L	ND	0.0050	0.0019	09/17/24 16:08	
Cobalt	mg/L	ND	0.0050	0.00032	09/17/24 16:08	
Lead	mg/L	ND	0.0010	0.00016	09/17/24 16:08	
Lithium	mg/L	ND	0.030	0.0016	09/17/24 16:08	
Molybdenum	mg/L	ND	0.010	0.00062	09/17/24 16:08	
Selenium	mg/L	ND	0.0050	0.00096	09/17/24 16:08	
Thallium	mg/L	ND	0.0010	0.00038	09/17/24 16:08	

LABORATORY CONTROL SAMPLE: 4545097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Arsenic	mg/L	0.0027J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545098 4545099

Parameter	Units	92751700018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.023	0.1	0.1	0.12	0.13	101	104	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	0.34	1	1	1.3	1.4	97	101	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	97	75-125	2	20	
Cobalt	mg/L	0.0021J	0.1	0.1	0.10	0.098	99	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.092	96	92	75-125	3	20	
Lithium	mg/L	0.016J	0.1	0.1	0.11	0.11	97	97	75-125	0	20	
Molybdenum	mg/L	0.0023J	0.1	0.1	0.098	0.10	96	99	75-125	3	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.091	94	91	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 882023
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751673001, 92751673002

METHOD BLANK: 4542505 Matrix: Water
Associated Lab Samples: 92751673001, 92751673002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/12/24 12:37	

LABORATORY CONTROL SAMPLE: 4542506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542507 4542508

Parameter	Units	92752079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	1.3 ug/L	0.0025	0.0025	0.0036	0.0038	91	99	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 883894
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751673003

METHOD BLANK: 4551831 Matrix: Water
Associated Lab Samples: 92751673003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/20/24 08:16	

LABORATORY CONTROL SAMPLE: 4551832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4551833 4551834

Parameter	Units	92751692001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	93	88	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 881518
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92751673001, 92751673002

METHOD BLANK: 4539487 Matrix: Water
Associated Lab Samples: 92751673001, 92751673002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/10/24 12:49	

LABORATORY CONTROL SAMPLE: 4539488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	80-120	

SAMPLE DUPLICATE: 4539489

Parameter	Units	92745448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	9160	9160	0	10	H1

SAMPLE DUPLICATE: 4539490

Parameter	Units	92751692003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1320	1310	0	10	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 881044
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751673001, 92751673002

METHOD BLANK: 4537672 Matrix: Water
Associated Lab Samples: 92751673001, 92751673002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/10/24 17:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/10/24 17:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/10/24 17:39	

LABORATORY CONTROL SAMPLE: 4537673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

LABORATORY CONTROL SAMPLE: 4537674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.8	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537677 4537678

Parameter	Units	92751341004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	123	50	50	175	180	104	113	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540803 4540804

Parameter	Units	92751673002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	15.3	50	50	66.8	67.6	103	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 883222
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751673003

METHOD BLANK: 4548387 Matrix: Water
Associated Lab Samples: 92751673003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/17/24 17:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/17/24 17:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/17/24 17:45	

LABORATORY CONTROL SAMPLE: 4548388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 4548389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.7	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4548390 4548391

Parameter	Units	92753035001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	44.4	50	50	93.1	92.5	97	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4548392 4548393

Parameter	Units	92753035002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	43.9	50	50	93.9	92.9	100	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 882932
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751673003

METHOD BLANK: 4547081 Matrix: Water
Associated Lab Samples: 92751673003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/16/24 17:33	

LABORATORY CONTROL SAMPLE: 4547082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4547083

Parameter	Units	92752529001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	646	650	1	25	

SAMPLE DUPLICATE: 4547084

Parameter	Units	92751673003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	122	126	3	25	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 881393
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751673001, 92751673002

METHOD BLANK: 4539188 Matrix: Water
Associated Lab Samples: 92751673001, 92751673002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/10/24 04:08	

LABORATORY CONTROL SAMPLE: 4539189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539190 4539191

Parameter	Units	92750994002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.56	0.50	108	96	80-120	11	10	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539192 4539193

Parameter	Units	92751658005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.55	106	109	80-120	3	10	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 882377
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751673003

METHOD BLANK: 4544517 Matrix: Water
Associated Lab Samples: 92751673003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/14/24 03:45	

LABORATORY CONTROL SAMPLE: 4544518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544519 4544520

Parameter	Units	92752833004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.51	93	102	80-120	9	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544521 4544522

Parameter	Units	92751692025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.54	99	107	80-120	8	10	

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REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 881039
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751673001, 92751673002

METHOD BLANK: 4537646 Matrix: Water
Associated Lab Samples: 92751673001, 92751673002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/24 15:48	
Fluoride	mg/L	ND	0.10	0.050	09/07/24 15:48	
Sulfate	mg/L	ND	1.0	0.50	09/07/24 15:48	

LABORATORY CONTROL SAMPLE: 4537647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537648 4537649

Parameter	Units	92752003007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.5	50	50	66.7	67.3	100	101	90-110	1	10	H3
Fluoride	mg/L	ND	2.5	2.5	1.3	1.3	51	52	90-110	2	10	H3,M1
Sulfate	mg/L	50.7	50	50	87.5	87.2	74	73	90-110	0	10	H3,M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4537650 4537651

Parameter	Units	92751658003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.7	50	50	55.7	55.6	102	102	90-110	0	10	
Fluoride	mg/L	0.082J	2.5	2.5	2.8	2.8	110	110	90-110	0	10	
Sulfate	mg/L	87.8	50	50	121	118	66	60	90-110	3	10	M1

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92751673

QC Batch: 882401
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92751673003

METHOD BLANK: 4544585 Matrix: Water
Associated Lab Samples: 92751673003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/24 12:42	
Fluoride	mg/L	ND	0.10	0.050	09/13/24 12:42	
Sulfate	mg/L	ND	1.0	0.50	09/13/24 12:42	

LABORATORY CONTROL SAMPLE: 4544586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.9	104	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544587 4544588

Parameter	Units	92753032003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	34.3	50	50	83.3	86.5	98	104	90-110	4	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	102	108	90-110	6	10	
Sulfate	mg/L	4.7	50	50	56.3	59.7	103	110	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544589 4544590

Parameter	Units	92753032014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.3	50	50	70.0	70.6	101	103	90-110	1	10	
Fluoride	mg/L	0.15	2.5	2.5	2.8	2.9	108	109	90-110	1	10	
Sulfate	mg/L	ND	50	50	52.2	52.8	104	105	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Plant McD Background
Pace Project No.: 92751673

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD Background
Pace Project No.: 92751673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751673001	**MCD-DGWA-70A**	EPA 3010A	880838	EPA 6010D	880939
92751673002	**MCD-DGWA-71**	EPA 3010A	880838	EPA 6010D	880939
92751673003	**MCD-DGWA-53**	EPA 3010A	882611	EPA 6010D	882633
92751673001	**MCD-DGWA-70A**	EPA 3005A	880813	EPA 6020B	880958
92751673002	**MCD-DGWA-71**	EPA 3005A	880813	EPA 6020B	880958
92751673003	**MCD-DGWA-53**	EPA 3005A	882511	EPA 6020B	882626
92751673001	**MCD-DGWA-70A**	EPA 7470A	882023	EPA 7470A	882103
92751673002	**MCD-DGWA-71**	EPA 7470A	882023	EPA 7470A	882103
92751673003	**MCD-DGWA-53**	EPA 7470A	883894	EPA 7470A	884113
92751673001	**MCD-DGWA-70A**	SM 2540C-2015	881518		
92751673002	**MCD-DGWA-71**	SM 2540C-2015	881518		
92751673001	**MCD-DGWA-70A**	SM 2320B-2011	881044		
92751673002	**MCD-DGWA-71**	SM 2320B-2011	881044		
92751673003	**MCD-DGWA-53**	SM 2320B-2011	883222		
92751673003	**MCD-DGWA-53**	SM 2540C-2015	882932		
92751673001	**MCD-DGWA-70A**	SM 4500-S2D-2011	881393		
92751673002	**MCD-DGWA-71**	SM 4500-S2D-2011	881393		
92751673003	**MCD-DGWA-53**	SM 4500-S2D-2011	882377		
92751673001	**MCD-DGWA-70A**	EPA 300.0 Rev 2.1 1993	881039		
92751673002	**MCD-DGWA-71**	EPA 300.0 Rev 2.1 1993	881039		
92751673003	**MCD-DGWA-53**	EPA 300.0 Rev 2.1 1993	882401		

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WO# : 92751673

92751673

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be con

1 Of 1

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road
	Atlanta, GA 30339
Email:	jabraham@southernco.com
Phone:	(470) 620-5175 Fax:
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To:	Joju Abraham
Copy To	WSP
Purchase Order #:	
Project Name:	Plant McD Background
Project #:	31406440.McD23

Section C
Invoice Information:

Attention:	scsinvoices@scsenergy.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Bonnie Wang
Pace Profile #:	

Regulatory Agency

State / Location
GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Acp Ill/V + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)
1	MCD-DGWA-70A	WG	G	9/4/24	11:25		7	3		3		1					X	X	X	X	X	X	
2	MCD-DGWA-71	WG	G	9/4/24	10:06		7	3		3		1					X	X	X	X	X	X	
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE
Task Code = MCD-CCR-ASSMT-2024S2	Mark Mann / [illegible]	09/05/24	0944	Conn - S34 / CURTERNOW	09/05/24
	Conn S34 9/05/24			9/5/24	1000

DATE Signed:

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92751673**

PM: BV Due Date: 09/19/24
CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: SC 9/5/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92751673

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 09/19/24
CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1 ✓		1 ✓																					
2		2	1		2		1 ✓		1 ✓																					
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD Background	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	*App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury			Residual Chlorine (Y/N)	92751673
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	N				
1	MCD-DGWA-53	WG	G	9/11/24	10:58		7	3		3		1					X	X	X	X	X	X	X				
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN / WSP	9/11/24	1555		9/11/24	9/11
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl						

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: SG 9/1/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1 ✓	1 ✓																						
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 22, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD Background-RADs
Pace Project No.: 92751664

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2024 and September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision #1 - This report replaces the October 3rd, 2024, report. This project was revised on October 21st, 2024, to update the H-3 collection year.

(Greensburg, PA) - Revision #1 - This report replaces the October 21st, 2024, report. This project was revised on October 21st, 2024, to remove H-3 from Radium-226

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

CERTIFICATIONS

Project: Plant McD Background-RADs
Pace Project No.: 92751664

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92751664001	**MCD-DGWA-70A**	Water	09/04/24 11:25	09/05/24 10:00
92751664002	**MCD-DGWA-71**	Water	09/04/24 10:06	09/05/24 10:00
92751664003	**MCD-DGWA-53**	Water	09/11/24 10:58	09/11/24 15:55

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SAMPLE ANALYTE COUNT

Project: Plant McD Background-RADs
Pace Project No.: 92751664

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92751664001	**MCD-DGWA-70A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751664002	**MCD-DGWA-71**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92751664003	**MCD-DGWA-53**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

Sample: MCD-DGWA-70A **Lab ID: 92751664001** Collected: 09/04/24 11:25 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.107U ± 0.122 (0.254) C:91% T:NA**	pCi/L	09/30/24 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0666U ± 0.289 (0.660) C:85% T:91%**	pCi/L	09/23/24 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.174U ± 0.411 (0.914)**	pCi/L	10/21/24 11:04	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

Sample: MCD-DGWA-71 **Lab ID: 92751664002** Collected: 09/04/24 10:06 Received: 09/05/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.209 ± 0.129 (0.206) C:93% T:NA**	pCi/L	09/30/24 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.384U ± 0.358 (0.730) C:82% T:89%**	pCi/L	09/23/24 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.593U ± 0.487 (0.936)**	pCi/L	10/21/24 11:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

Sample: MCD-DGWA-53 **Lab ID: 92751664003** Collected: 09/11/24 10:58 Received: 09/11/24 15:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.17 ± 0.299 (0.227) C:95% T:NA**	pCi/L	10/02/24 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.408U ± 0.414 (0.859) C:79% T:87%**	pCi/L	10/01/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.58 ± 0.713 (1.09)**	pCi/L	10/21/24 11:04	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

QC Batch: 696334
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751664003

METHOD BLANK: 3391001 Matrix: Water
Associated Lab Samples: 92751664003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0966 ± 0.111 (0.228) C:89% T:NA	pCi/L	10/02/24 08:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

QC Batch: 698259
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751664003

METHOD BLANK: 3399971 Matrix: Water
Associated Lab Samples: 92751664003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.177 ± 0.323 (0.708) C:79% T:89%	pCi/L	10/01/24 14:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

QC Batch: 695548
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751664001, 92751664002

METHOD BLANK: 3387259
Matrix: Water
Associated Lab Samples: 92751664001, 92751664002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.175 ± 0.297 (0.647) C:85% T:86%	pCi/L	09/23/24 15:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD Background-RADs
Pace Project No.: 92751664

QC Batch: 695870
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92751664001, 92751664002

METHOD BLANK: 3388999 Matrix: Water
Associated Lab Samples: 92751664001, 92751664002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0274 ± 0.0932 (0.274) C:73% T:NA	pCi/L	09/30/24 09:02	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Plant McD Background-RADs
Pace Project No.: 92751664

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD Background-RADs
Pace Project No.: 92751664

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92751664001	**MCD-DGWA-70A**	EPA 9315	695870		
92751664002	**MCD-DGWA-71**	EPA 9315	695870		
92751664003	**MCD-DGWA-53**	EPA 9315	696334		
92751664001	**MCD-DGWA-70A**	EPA 9320	695548		
92751664002	**MCD-DGWA-71**	EPA 9320	695548		
92751664003	**MCD-DGWA-53**	EPA 9320	698259		
92751664001	**MCD-DGWA-70A**	Total Radium Calculation	704206		
92751664002	**MCD-DGWA-71**	Total Radium Calculation	704206		
92751664003	**MCD-DGWA-53**	Total Radium Calculation	704206		

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be co

WO# : 92751664

92751664

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD Background	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency
State / Location
GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	Analyses Test: Acp III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	
1	MCD-DGWA-70A	WG	G	9/4/24	11:25		7	3		3		1					X	X	X	X	X	X	
2	MCD-DGWA-71	WG	G	9/4/24	10:06		7	3		3		1					X	X	X	X	X	X	
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MACK MANN / [illegible]	09/05/24	0945	Cinn - 434 / COURIER NOW	09/05/24	
	Cinn R34C/NOW	09/05/24		9/5/24	10:00	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92751664

PM: BV Due Date: 09/26/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: SC 4/5/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C): 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WW	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92751664

PM: BV Due Date: 09/26/24

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per MH-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																															
1		2	1		2		1 ✓		1 ✓																						
2		2	1		2		1 ✓		1 ✓																						
3																															
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD Background	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)	
																	N	N	N	N	N	N	N			92751664
																	*App III/IV metals + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Mercury			
1	MCD-DGWA-53	WG	G	9/11/24	10:58		7	3		3		1					X	X	X	X	X	X	X			
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S2	MARK MANN / [illegible]	9/11/24	1555	[signature]	9/11/24	9/11
*App III/IV metals = B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl						

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: SG 9/11/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		1	1																						
2																														
3																														
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12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/26/2024
Worklist:	81486
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3399971
MB concentration:	0.177
M/B 2 Sigma CSU:	0.323
MB MDC:	0.708
MB Numerical Performance Indicator:	1.07
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81486	**LCSD81486**
Count Date:	10/1/2024	10/1/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.097	35.097
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.301	4.305
Uncertainty (Calculated):	0.211	0.211
Result (pCi/L, g, F):	3.154	3.325
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.825	0.820
Numerical Performance Indicator:	-2.64	-2.27
Percent Recovery:	73.33%	77.23%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81486	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81486	
Sample Result (pCi/L, g, F):	3.154	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.825	
Sample Duplicate Result (pCi/L, g, F):	3.325	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.820	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.288	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.19%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LAL
10/2/24

JLW
10/2/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/19/2024
Worklist:	81293
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3388999
MB concentration:	-0.027
M/B 2 Sigma CSU:	0.093
MB MDC:	0.274
MB Numerical Performance Indicator:	-0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81293	LCSD81293
Count Date:	9/30/2024	9/30/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.501
Target Conc. (pCi/L, g, F):	4.970	4.994
Uncertainty (Calculated):	0.234	0.235
Result (pCi/L, g, F):	5.287	5.017
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.932	0.881
Numerical Performance Indicator:	0.65	0.05
Percent Recovery:	106.37%	100.45%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81293	92752186001
Duplicate Sample I.D.	LCSD81293	92752186001DUP
Sample Result (pCi/L, g, F):	5.287	1.064
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.932	0.283
Sample Duplicate Result (pCi/L, g, F):	5.017	0.961
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.261
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.413	0.527
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.73%	10.24%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

vsm 9/30/24

SLC 9/30/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/19/2024
Worklist:	81332
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3391001
MB concentration:	0.097
M/B 2 Sigma CSU:	0.111
MB MDC:	0.228
MB Numerical Performance Indicator:	1.71
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81332	LCSD81332
Count Date:	10/2/2024	10/2/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.019	25.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.976	4.972
Uncertainty (Calculated):	0.234	0.234
Result (pCi/L, g, F):	4.582	5.011
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.809	0.881
Numerical Performance Indicator:	-0.92	0.09
Percent Recovery:	92.08%	100.80%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81332	92751679027
Duplicate Sample I.D.	LCSD81332	92751679027DUP
Sample Result (pCi/L, g, F):	4.582	0.266
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.809	0.149
Sample Duplicate Result (pCi/L, g, F):	5.011	0.191
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.135
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.704	0.727
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.04%	32.58%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
10/3/24

VAM 10/3/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/18/2024
Worklist:	81266
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3387259
MB concentration:	0.175
M/B 2 Sigma CSU:	0.297
MB MDC:	0.647
MB Numerical Performance Indicator:	1.16
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81266	LCSD81266
Count Date:	9/26/2024	9/26/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.156	35.156
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.817
Target Conc. (pCi/L, g, F):	4.291	4.302
Uncertainty (Calculated):	0.210	0.211
Result (pCi/L, g, F):	4.710	4.548
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.053	1.013
Numerical Performance Indicator:	0.76	0.47
Percent Recovery:	109.76%	105.73%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81266	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81266	
Sample Result (pCi/L, g, F):	4.710	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.053	
Sample Duplicate Result (pCi/L, g, F):	4.548	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.013	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.217	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.74%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

SLC 9/27/24

VAL
9/27/24

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 18, 2024

Priya Jacob
ARCADIS - Atlanta
2839 Paces Ferry Rd
Suite 900
Atlanta, GA 30339

RE: Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Dear Priya Jacob:

Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Daniela Herrera, WSP USA E&I Inc - Atlanta
Ben Hodges, Southern Company
Allison Keefer, Southern Company
Laura Midkiff, Southern Company
Dawn Prell, WSP USA E&I Inc - Atlanta
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

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CERTIFICATIONS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92752880001	**MCD-UT01_US**	Water	09/10/24 12:50	09/11/24 13:40
92752880002	**MCD-UT02**	Water	09/10/24 12:40	09/11/24 13:40
92752880003	**MCD-UT03**	Water	09/10/24 12:35	09/11/24 13:40
92752880004	**MCD-UT01_DS**	Water	09/10/24 12:24	09/11/24 13:40
92752880005	**MCD-CR-0.1**	Water	09/10/24 11:27	09/11/24 13:40
92752880006	**MCD-CR+0.2**	Water	09/10/24 11:29	09/11/24 13:40
92752880007	**MCD-CR+0.4**	Water	09/10/24 10:30	09/11/24 13:40

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SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92752880001	**MCD-UT01_US**	EPA 6010D	MJS2	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752880002	**MCD-UT02**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752880003	**MCD-UT03**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752880004	**MCD-UT01_DS**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752880005	**MCD-CR-0.1**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752880006	**MCD-CR+0.2**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752880007	**MCD-CR+0.4**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Sample: MCD-UT01_US **Lab ID: 92752880001** Collected: 09/10/24 12:50 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**3.1**	mg/L	0.50	1	09/12/24 13:08	09/13/24 20:23	7440-09-7	
Sodium	**13.1**	mg/L	1.0	1	09/12/24 13:08	09/13/24 20:23	7440-23-5	
Calcium	**13.5**	mg/L	1.0	1	09/12/24 13:08	09/13/24 20:23	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	1	09/12/24 13:08	09/13/24 20:23	7439-95-4	
Boron	**0.043**	mg/L	0.040	1	09/12/24 13:08	09/14/24 17:38	7440-42-8	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:08	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**41.8**	mg/L	5.0	1		09/17/24 16:22		
Alkalinity, Total as CaCO3	**41.8**	mg/L	5.0	1		09/17/24 16:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**104**	mg/L	25.0	1		09/16/24 10:39		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**14.7**	mg/L	1.0	1		09/13/24 20:08	16887-00-6	
Fluoride	**0.54**	mg/L	0.10	1		09/13/24 20:08	16984-48-8	
Sulfate	**15.8**	mg/L	1.0	1		09/13/24 20:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Sample: MCD-UT02 **Lab ID: 92752880002** Collected: 09/10/24 12:40 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.087**	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:01	7440-42-8	
Potassium	**3.5**	mg/L	0.50	1	09/12/24 17:29	09/16/24 18:13	7440-09-7	
Sodium	**14.1**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:13	7440-23-5	
Calcium	**14.3**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:13	7440-70-2	M1
Magnesium	**3.0**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:24	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**44.3**	mg/L	5.0	1		09/17/24 16:28		
Alkalinity, Total as CaCO3	**44.3**	mg/L	5.0	1		09/17/24 16:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**114**	mg/L	25.0	1		09/16/24 10:39		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**13.9**	mg/L	1.0	1		09/13/24 21:18	16887-00-6	
Fluoride	**0.50**	mg/L	0.10	1		09/13/24 21:18	16984-48-8	
Sulfate	**18.4**	mg/L	1.0	1		09/13/24 21:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Sample: MCD-UT03 **Lab ID: 92752880003** Collected: 09/10/24 12:35 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.081**	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:15	7440-42-8	
Magnesium	**2.9**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:15	7439-95-4	
Potassium	**3.5**	mg/L	0.50	1	09/12/24 17:29	09/16/24 18:32	7440-09-7	
Sodium	**14.1**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:32	7440-23-5	
Calcium	**14.4**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:32	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:28	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**44.6**	mg/L	5.0	1		09/17/24 16:34		
Alkalinity, Total as CaCO3	**44.6**	mg/L	5.0	1		09/17/24 16:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**115**	mg/L	25.0	1		09/16/24 10:39		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**13.8**	mg/L	1.0	1		09/13/24 21:32	16887-00-6	
Fluoride	**0.50**	mg/L	0.10	1		09/13/24 21:32	16984-48-8	
Sulfate	**18.4**	mg/L	1.0	1		09/13/24 21:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Sample: MCD-UT01_DS **Lab ID: 92752880004** Collected: 09/10/24 12:24 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.17**	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:20	7440-42-8	
Magnesium	**3.5**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:20	7439-95-4	
Potassium	**4.0**	mg/L	0.50	1	09/12/24 17:29	09/16/24 18:46	7440-09-7	
Sodium	**13.6**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:46	7440-23-5	
Calcium	**15.4**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:46	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:33	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**46.5**	mg/L	5.0	1		09/17/24 16:41		
Alkalinity, Total as CaCO3	**46.5**	mg/L	5.0	1		09/17/24 16:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**123**	mg/L	25.0	1		09/16/24 10:19		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**13.5**	mg/L	1.0	1		09/13/24 21:46	16887-00-6	
Fluoride	**0.48**	mg/L	0.10	1		09/13/24 21:46	16984-48-8	
Sulfate	**20.4**	mg/L	1.0	1		09/13/24 21:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Sample: MCD-CR-0.1 **Lab ID: 92752880005** Collected: 09/10/24 11:27 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**4.8**	mg/L	0.50	1	09/12/24 17:29	09/16/24 18:51	7440-09-7	
Sodium	**14.7**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:51	7440-23-5	
Calcium	**6.4**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:51	7440-70-2	
Boron	ND	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:25	7440-42-8	
Magnesium	**2.9**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:46	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.0**	mg/L	5.0	1		09/17/24 16:56		
Alkalinity, Total as CaCO3	**27.0**	mg/L	5.0	1		09/17/24 16:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**85.0**	mg/L	25.0	1		09/16/24 10:19		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**14.9**	mg/L	1.0	1		09/13/24 21:59	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/13/24 21:59	16984-48-8	
Sulfate	**9.1**	mg/L	1.0	1		09/13/24 21:59	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Sample: MCD-CR+0.2 **Lab ID: 92752880006** Collected: 09/10/24 11:29 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.059**	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:30	7440-42-8	
Magnesium	**3.2**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:30	7439-95-4	
Potassium	**4.9**	mg/L	0.50	1	09/12/24 17:29	09/16/24 18:56	7440-09-7	
Sodium	**15.4**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:56	7440-23-5	
Calcium	**7.5**	mg/L	1.0	1	09/12/24 17:29	09/16/24 18:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:50	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**29.0**	mg/L	5.0	1		09/17/24 17:01		
Alkalinity, Total as CaCO3	**29.0**	mg/L	5.0	1		09/17/24 17:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**94.0**	mg/L	25.0	1		09/16/24 10:19		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**15.8**	mg/L	1.0	1		09/13/24 22:13	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	1		09/13/24 22:13	16984-48-8	
Sulfate	**12.7**	mg/L	1.0	1		09/13/24 22:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Sample: MCD-CR+0.4 **Lab ID: 92752880007** Collected: 09/10/24 10:30 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**5.1**	mg/L	0.50	1	09/12/24 17:29	09/16/24 19:01	7440-09-7	
Sodium	**15.0**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:01	7440-23-5	
Calcium	**7.4**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:01	7440-70-2	
Boron	**0.051**	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:34	7440-42-8	
Magnesium	**3.3**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:34	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:54	7440-38-2	
Cobalt	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:54	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**28.3**	mg/L	5.0	1		09/17/24 17:07		
Alkalinity, Total as CaCO3	**28.3**	mg/L	5.0	1		09/17/24 17:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**89.0**	mg/L	25.0	1		09/16/24 10:21		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**15.7**	mg/L	1.0	1		09/13/24 22:27	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	1		09/13/24 22:27	16984-48-8	
Sulfate	**12.0**	mg/L	1.0	1		09/13/24 22:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

QC Batch: 882148
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752880001

METHOD BLANK: 4542901 Matrix: Water
Associated Lab Samples: 92752880001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	09/14/24 17:00	
Calcium	mg/L	ND	1.0	09/13/24 17:48	
Magnesium	mg/L	ND	0.050	09/13/24 17:48	
Potassium	mg/L	ND	0.50	09/13/24 17:48	
Sodium	mg/L	ND	1.0	09/13/24 17:48	

LABORATORY CONTROL SAMPLE: 4542902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	80-120	
Calcium	mg/L	1	.96J	96	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	112	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542903 4542904

Parameter	Units	92751700011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.1	1	1	2.1	2.1	91	90	75-125	0	20	
Calcium	mg/L	33.0	1	1	32.5	33.5	-49	47	75-125	3	20	M1
Magnesium	mg/L	20.4	1	1	20.4	21.1	-3	67	75-125	3	20	M1
Potassium	mg/L	5.7	1	1	6.5	6.7	77	96	75-125	3	20	
Sodium	mg/L	75.7	1	1	73.6	76.3	-204	57	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

QC Batch: 882215
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

METHOD BLANK: 4543444 Matrix: Water
Associated Lab Samples: 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	09/17/24 18:51	
Calcium	mg/L	ND	1.0	09/16/24 17:49	
Magnesium	mg/L	ND	0.050	09/17/24 18:51	
Potassium	mg/L	ND	0.50	09/16/24 17:49	
Sodium	mg/L	ND	1.0	09/16/24 17:49	

LABORATORY CONTROL SAMPLE: 4543445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	80-120	
Calcium	mg/L	1	.94J	94	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	1.2	120	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4543446 4543447

Parameter	Units	92752880002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.087	1	1	1.0	1.1	95	97	75-125	1	20	
Calcium	mg/L	14.3	1	1	15.0	15.2	69	90	75-125	1	20	M1
Magnesium	mg/L	3.0	1	1	3.9	3.8	93	83	75-125	3	20	
Potassium	mg/L	3.5	1	1	4.5	4.6	95	102	75-125	1	20	
Sodium	mg/L	14.1	1	1	14.9	15.2	87	111	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

QC Batch: 882510
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752880001, 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

METHOD BLANK: 4545086 Matrix: Water
Associated Lab Samples: 92752880001, 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	09/16/24 14:55	
Cobalt	mg/L	ND	0.0050	09/16/24 14:55	

LABORATORY CONTROL SAMPLE: 4545087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545088 4545089

Parameter	Units	92752880001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

QC Batch: 882548
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752880001, 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

METHOD BLANK: 4545325 Matrix: Water
Associated Lab Samples: 92752880001, 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/17/24 14:31	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	09/17/24 14:31	

LABORATORY CONTROL SAMPLE: 4545326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

LABORATORY CONTROL SAMPLE: 4545327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545328 4545329

Parameter	Units	92753032006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	96.0	50	50	145	144	97	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545330 4545331

Parameter	Units	92753032007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	45.6	45.5	91	91	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

QC Batch: 882743
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752880001, 92752880002, 92752880003

METHOD BLANK: 4546406 Matrix: Water
Associated Lab Samples: 92752880001, 92752880002, 92752880003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/16/24 10:33	

LABORATORY CONTROL SAMPLE: 4546407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 4546408

Parameter	Units	92752389003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	73.0	73.0	0	25	

SAMPLE DUPLICATE: 4546409

Parameter	Units	92752420006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	25.0	25.0	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

QC Batch: 882744 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752880004, 92752880005, 92752880006, 92752880007

METHOD BLANK: 4546410 Matrix: Water
Associated Lab Samples: 92752880004, 92752880005, 92752880006, 92752880007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/16/24 10:19	

LABORATORY CONTROL SAMPLE: 4546411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4546412

Parameter	Units	92752880004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	117	5	25	

SAMPLE DUPLICATE: 4546413

Parameter	Units	92751700024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	469	470	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

QC Batch: 882403
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752880001, 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

METHOD BLANK: 4544595 Matrix: Water
Associated Lab Samples: 92752880001, 92752880002, 92752880003, 92752880004, 92752880005, 92752880006, 92752880007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/13/24 19:40	
Fluoride	mg/L	ND	0.10	09/13/24 19:40	
Sulfate	mg/L	ND	1.0	09/13/24 19:40	

LABORATORY CONTROL SAMPLE: 4544596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544597 4544598

Parameter	Units	92752880001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.7	50	50	65.8	66.2	102	103	90-110	1	10	
Fluoride	mg/L	0.54	2.5	2.5	3.2	3.3	106	110	90-110	3	10	
Sulfate	mg/L	15.8	50	50	67.9	68.2	104	105	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544599 4544600

Parameter	Units	92752882004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.9	50	50	66.2	66.8	103	104	90-110	1	10	
Fluoride	mg/L	0.14	2.5	2.5	2.8	2.8	105	105	90-110	0	10	
Sulfate	mg/L	9.5	50	50	61.9	62.4	105	106	90-110	1	10	

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(770)734-4200

QUALIFIERS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92752880001	**MCD-UT01_US**	EPA 3010A	882148	EPA 6010D	882244
92752880002	**MCD-UT02**	EPA 3010A	882215	EPA 6010D	882317
92752880003	**MCD-UT03**	EPA 3010A	882215	EPA 6010D	882317
92752880004	**MCD-UT01_DS**	EPA 3010A	882215	EPA 6010D	882317
92752880005	**MCD-CR-0.1**	EPA 3010A	882215	EPA 6010D	882317
92752880006	**MCD-CR+0.2**	EPA 3010A	882215	EPA 6010D	882317
92752880007	**MCD-CR+0.4**	EPA 3010A	882215	EPA 6010D	882317
92752880001	**MCD-UT01_US**	EPA 3005A	882510	EPA 6020B	882625
92752880002	**MCD-UT02**	EPA 3005A	882510	EPA 6020B	882625
92752880003	**MCD-UT03**	EPA 3005A	882510	EPA 6020B	882625
92752880004	**MCD-UT01_DS**	EPA 3005A	882510	EPA 6020B	882625
92752880005	**MCD-CR-0.1**	EPA 3005A	882510	EPA 6020B	882625
92752880006	**MCD-CR+0.2**	EPA 3005A	882510	EPA 6020B	882625
92752880007	**MCD-CR+0.4**	EPA 3005A	882510	EPA 6020B	882625
92752880001	**MCD-UT01_US**	SM 2320B-2011	882548		
92752880002	**MCD-UT02**	SM 2320B-2011	882548		
92752880003	**MCD-UT03**	SM 2320B-2011	882548		
92752880004	**MCD-UT01_DS**	SM 2320B-2011	882548		
92752880005	**MCD-CR-0.1**	SM 2320B-2011	882548		
92752880006	**MCD-CR+0.2**	SM 2320B-2011	882548		
92752880007	**MCD-CR+0.4**	SM 2320B-2011	882548		
92752880001	**MCD-UT01_US**	SM 2540C-2015	882743		
92752880002	**MCD-UT02**	SM 2540C-2015	882743		
92752880003	**MCD-UT03**	SM 2540C-2015	882743		
92752880004	**MCD-UT01_DS**	SM 2540C-2015	882744		
92752880005	**MCD-CR-0.1**	SM 2540C-2015	882744		
92752880006	**MCD-CR+0.2**	SM 2540C-2015	882744		
92752880007	**MCD-CR+0.4**	SM 2540C-2015	882744		
92752880001	**MCD-UT01_US**	EPA 9056A	882403		
92752880002	**MCD-UT02**	EPA 9056A	882403		
92752880003	**MCD-UT03**	EPA 9056A	882403		
92752880004	**MCD-UT01_DS**	EPA 9056A	882403		
92752880005	**MCD-CR-0.1**	EPA 9056A	882403		
92752880006	**MCD-CR+0.2**	EPA 9056A	882403		
92752880007	**MCD-CR+0.4**	EPA 9056A	882403		

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label

WO# : 92752880

92752880

Company Name:	ARCADIS - Atlanta	Contact/Report To:	Priya Jacob
Street Address:	2839 Paces Ferry Rd Suite 900 Atlanta, GA 30339	Phone #:	(618)790-6528
		E-Mail:	priya.jacob@arcadis.com
		Cc E-Mail:	Arcadis-Atl and GPC Distribution List
Customer Project #:			
Project Name:	Plant McDonough-CCR Ash Pond	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	Plant McDonough SWS	Purchase Order # (if applicable):	GPC82474-0004
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - As only	App. IV Metals - Co only	App. IV Metals - As, Co only	App. III Metals - B, Ca only	Metals - K, Mg, Na	Alkalinity (Total/BiCarb), Cl, F, SO4	TDS	Sample Comment
MCD-UT01_US	WS	G	9/10/24	1250			3			X			X	X	X	X	AS
MCD-UT02	WS	G	9/10/24	1240			3			X			X	X	X	X	AS
MCD-UT03	WS	G	9/10/24	1235			3			X			X	X	X	X	AS
MCD-UT01_DS	WS	G	9/10/24	1224			3			X			X	X	X	X	AS
MCD-CR-0.1	WS	G	9/10/24	1127			3				X		X	X	X	X	CO
MCD-CR+0.2	WS	G	9/10/24	1129			3				X		X	X	X	X	CO
MCD-CR+0.4	WS	G	9/10/24	1030			3					X	X	X	X	X	AS,CO

Lab Use Only
Proj. Mgr: Maiya Parks
AcctNum / Client ID:
Table #:
Profile / Template: 12896
Prelog / Bottle Ord. ID: EZ 3152065

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
MCD-CSURF-ASSMT-2024S2

Collected By: (Printed Name) Garrett G
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	9/11/24 1340		9/11/24 1340	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis

Project #:

WO# : 92752880

PM: MP Due Date: 09/18/24

CLIENT: GA-ArcadAll

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 9/11/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # WO#:92752880
PM: MP Due Date: 09/18/24
CLIENT: GA-AreadAtl

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1			2				1																						
2			2				1																						
3			2				1																						
4			2				1																						
5			2				1																						
6			2				1																						
7			2				1																						
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 18, 2024

Priya Jacob
ARCADIS - Atlanta
2839 Paces Ferry Rd
Suite 900
Atlanta, GA 30339

RE: Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Dear Priya Jacob:

Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Daniela Herrera, WSP USA E&I Inc - Atlanta
Ben Hodges, Southern Company
Allison Keefer, Southern Company
Laura Midkiff, Southern Company
Dawn Prell, WSP USA E&I Inc - Atlanta
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

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CERTIFICATIONS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92752882001	**MCD-DW_DS**	Water	09/10/24 11:06	09/11/24 13:40
92752882002	**MCD-DW_US**	Water	09/10/24 10:45	09/11/24 13:40
92752882003	**MCD-CR-0.2**	Water	09/10/24 10:40	09/11/24 13:40
92752882004	**MCD-CR-0.5**	Water	09/10/24 11:36	09/11/24 13:40

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SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92752882001	**MCD-DW_DS**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752882002	**MCD-DW_US**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752882003	**MCD-CR-0.2**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92752882004	**MCD-CR-0.5**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	MT1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Sample: MCD-DW_DS **Lab ID: 92752882001** Collected: 09/10/24 11:06 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.13**	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:52	7440-42-8	
Magnesium	**3.9**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:52	7439-95-4	
Potassium	**5.4**	mg/L	0.50	1	09/12/24 17:29	09/16/24 19:05	7440-09-7	
Sodium	**17.1**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:05	7440-23-5	
Calcium	**9.2**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 15:58	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**30.4**	mg/L	5.0	1		09/17/24 17:13		
Alkalinity, Total as CaCO3	**30.4**	mg/L	5.0	1		09/17/24 17:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**100**	mg/L	25.0	1		09/16/24 10:21		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**17.7**	mg/L	1.0	1		09/13/24 22:41	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	1		09/13/24 22:41	16984-48-8	
Sulfate	**19.2**	mg/L	1.0	1		09/13/24 22:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Sample: MCD-DW_US **Lab ID: 92752882002** Collected: 09/10/24 10:45 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.065**	mg/L	0.040	1	09/12/24 17:29	09/17/24 19:57	7440-42-8	
Magnesium	**3.3**	mg/L	0.050	1	09/12/24 17:29	09/17/24 19:57	7439-95-4	
Potassium	**5.0**	mg/L	0.50	1	09/12/24 17:29	09/16/24 19:10	7440-09-7	
Sodium	**15.4**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:10	7440-23-5	
Calcium	**7.7**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:10	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 16:02	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**28.8**	mg/L	5.0	1		09/17/24 17:19		
Alkalinity, Total as CaCO3	**28.8**	mg/L	5.0	1		09/17/24 17:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**94.0**	mg/L	25.0	1		09/16/24 10:21		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**15.8**	mg/L	1.0	1		09/13/24 22:55	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	1		09/13/24 22:55	16984-48-8	
Sulfate	**13.4**	mg/L	1.0	1		09/13/24 22:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Sample: MCD-CR-0.2 **Lab ID: 92752882003** Collected: 09/10/24 10:40 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	09/12/24 17:29	09/17/24 20:02	7440-42-8	
Magnesium	**2.8**	mg/L	0.050	1	09/12/24 17:29	09/17/24 20:02	7439-95-4	
Potassium	**4.5**	mg/L	0.50	1	09/12/24 17:29	09/16/24 19:15	7440-09-7	
Sodium	**14.1**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:15	7440-23-5	
Calcium	**6.2**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:15	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 16:06	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.2**	mg/L	5.0	1		09/17/24 17:25		
Alkalinity, Total as CaCO3	**27.2**	mg/L	5.0	1		09/17/24 17:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**81.0**	mg/L	25.0	1		09/16/24 10:21		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**14.9**	mg/L	1.0	1		09/13/24 23:09	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/13/24 23:09	16984-48-8	
Sulfate	**9.1**	mg/L	1.0	1		09/13/24 23:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Sample: MCD-CR-0.5 **Lab ID: 92752882004** Collected: 09/10/24 11:36 Received: 09/11/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	09/12/24 17:29	09/17/24 20:07	7440-42-8	
Magnesium	**2.8**	mg/L	0.050	1	09/12/24 17:29	09/17/24 20:07	7439-95-4	
Potassium	**4.6**	mg/L	0.50	1	09/12/24 17:29	09/16/24 19:20	7440-09-7	
Sodium	**14.0**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:20	7440-23-5	
Calcium	**6.5**	mg/L	1.0	1	09/12/24 17:29	09/16/24 19:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/13/24 13:55	09/16/24 16:11	7440-48-4	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.1**	mg/L	5.0	1		09/17/24 17:31		
Alkalinity, Total as CaCO3	**27.1**	mg/L	5.0	1		09/17/24 17:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**84.0**	mg/L	25.0	1		09/16/24 10:21		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**14.9**	mg/L	1.0	1		09/13/24 23:51	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	1		09/13/24 23:51	16984-48-8	
Sulfate	**9.5**	mg/L	1.0	1		09/13/24 23:51	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

QC Batch: 882215
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

METHOD BLANK: 4543444 Matrix: Water
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	09/17/24 18:51	
Calcium	mg/L	ND	1.0	09/16/24 17:49	
Magnesium	mg/L	ND	0.050	09/17/24 18:51	
Potassium	mg/L	ND	0.50	09/16/24 17:49	
Sodium	mg/L	ND	1.0	09/16/24 17:49	

LABORATORY CONTROL SAMPLE: 4543445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	80-120	
Calcium	mg/L	1	.94J	94	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	1.2	120	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4543446 4543447

Parameter	Units	92752880002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.087	1	1	1.0	1.1	95	97	75-125	1	20	
Calcium	mg/L	14.3	1	1	15.0	15.2	69	90	75-125	1	20	M1
Magnesium	mg/L	3.0	1	1	3.9	3.8	93	83	75-125	3	20	
Potassium	mg/L	3.5	1	1	4.5	4.6	95	102	75-125	1	20	
Sodium	mg/L	14.1	1	1	14.9	15.2	87	111	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

QC Batch: 882510
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

METHOD BLANK: 4545086 Matrix: Water
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	09/16/24 14:55	

LABORATORY CONTROL SAMPLE: 4545087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545088 4545089

Parameter	Units	92752880001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

QC Batch: 882548
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

METHOD BLANK: 4545325 Matrix: Water
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/17/24 14:31	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	09/17/24 14:31	

LABORATORY CONTROL SAMPLE: 4545326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

LABORATORY CONTROL SAMPLE: 4545327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545328 4545329

Parameter	Units	92753032006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	96.0	50	50	145	144	97	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4545330 4545331

Parameter	Units	92753032007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	45.6	45.5	91	91	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

QC Batch: 882744
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

METHOD BLANK: 4546410 Matrix: Water
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/16/24 10:19	

LABORATORY CONTROL SAMPLE: 4546411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4546412

Parameter	Units	92752880004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	117	5	25	

SAMPLE DUPLICATE: 4546413

Parameter	Units	92751700024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	469	470	0	25	

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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

QC Batch: 882403
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

METHOD BLANK: 4544595 Matrix: Water
Associated Lab Samples: 92752882001, 92752882002, 92752882003, 92752882004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/13/24 19:40	
Fluoride	mg/L	ND	0.10	09/13/24 19:40	
Sulfate	mg/L	ND	1.0	09/13/24 19:40	

LABORATORY CONTROL SAMPLE: 4544596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544597 4544598

Parameter	Units	92752880001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.7	50	50	65.8	66.2	102	103	90-110	1	10	
Fluoride	mg/L	0.54	2.5	2.5	3.2	3.3	106	110	90-110	3	10	
Sulfate	mg/L	15.8	50	50	67.9	68.2	104	105	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4544599 4544600

Parameter	Units	92752882004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.9	50	50	66.2	66.8	103	104	90-110	1	10	
Fluoride	mg/L	0.14	2.5	2.5	2.8	2.8	105	105	90-110	0	10	
Sulfate	mg/L	9.5	50	50	61.9	62.4	105	106	90-110	1	10	

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(770)734-4200

QUALIFIERS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92752882

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92752882001	**MCD-DW_DS**	EPA 3010A	882215	EPA 6010D	882317
92752882002	**MCD-DW_US**	EPA 3010A	882215	EPA 6010D	882317
92752882003	**MCD-CR-0.2**	EPA 3010A	882215	EPA 6010D	882317
92752882004	**MCD-CR-0.5**	EPA 3010A	882215	EPA 6010D	882317
92752882001	**MCD-DW_DS**	EPA 3005A	882510	EPA 6020B	882625
92752882002	**MCD-DW_US**	EPA 3005A	882510	EPA 6020B	882625
92752882003	**MCD-CR-0.2**	EPA 3005A	882510	EPA 6020B	882625
92752882004	**MCD-CR-0.5**	EPA 3005A	882510	EPA 6020B	882625
92752882001	**MCD-DW_DS**	SM 2320B-2011	882548		
92752882002	**MCD-DW_US**	SM 2320B-2011	882548		
92752882003	**MCD-CR-0.2**	SM 2320B-2011	882548		
92752882004	**MCD-CR-0.5**	SM 2320B-2011	882548		
92752882001	**MCD-DW_DS**	SM 2540C-2015	882744		
92752882002	**MCD-DW_US**	SM 2540C-2015	882744		
92752882003	**MCD-CR-0.2**	SM 2540C-2015	882744		
92752882004	**MCD-CR-0.5**	SM 2540C-2015	882744		
92752882001	**MCD-DW_DS**	EPA 9056A	882403		
92752882002	**MCD-DW_US**	EPA 9056A	882403		
92752882003	**MCD-CR-0.2**	EPA 9056A	882403		
92752882004	**MCD-CR-0.5**	EPA 9056A	882403		

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92752882

92752882

Affix Workorder/Login Label Here

Company Name:	ARCADIS - Atlanta	Contact/Report To:	Priya Jacob
Street Address:	2839 Paces Ferry Rd Suite 900 Atlanta, GA 30339	Phone #:	(618)790-6528
		E-Mail:	priya.jacob@arcadis.com
		Cc E-Mail:	Arcadis-Atl and GPC Distribution List
Customer Project #:			
Project Name:	Plant McDonough-CCR Ash Pond	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	Plant McDonough SWS	Purchase Order # (if applicable):	GPC82474-0004
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [x] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 5 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***

*** Preservative Types: (1) None, (2) HNO_3, (3) H_2SO_4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) $NaHSO_4$, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only: Proj. Mgr: Maiya Parks; AcctNum / Client ID:; Table #:; Profile / Template: 12896; Prelog / Bottle Ord. ID: EZ 3152065

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Co only	App. III Metals - B, Ca only	Metals - K, Mg, Na	Alkalinity (Total/BiCarb), Cl, F, SO4	TDS	Sample Comment	Preservation non-conformance identified for sample.
MCD-DW_DS	WS	G	9/10/24	1106			3			X	X	X	X	X	Co	
MCD-DW_US	WS	G	9/10/24	1045			3			X	X	X	X	X	Co	
MCD-CR-0.2	WS	G	9/10/24	[illegible]			3			X	X	X	X	X	Co [illegible] @1040	
MCD-CR-0.5	WS	G	9/10/24	1136			3			X	X	X	X	X	Co	

Additional Instructions from Pace®:
MCD-CSURF-ASSMT-2024SZ
III Metals - B, Ca, Cl, F, NH_4, Sulfate, TDS
[illegible]

Collected By: (Printed Name) Garrett G
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) | On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	9/11/24 1340		9/11/24 1340	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcad:s

Project #

WO# : 92752882

PM: MP **Due Date: 09/18/24**

CLIENT: GA-ArcadAtl

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ ~~No~~ **Seals Intact?** ☐ Yes ☐ No ☑ ~~N/A~~

Date/Initials Person Examining Contents: 9/11/24 (DR)

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ ~~None~~ ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ ~~N/A~~

Thermometer:

☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 3.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ ~~No~~	☐ N/A	9. MCD-DW-US not present but MCD-CR-0.1 was present + logged in as MCD-DW-US
-Includes Date/Time/ID/Analysis Matrix:____				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # WO#: 92752882
PM: MP Due Date: 09/18/24
CLIENT: GA-AreadAtl

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1			2				1																						
2			2				1																						
3			2				1																						
4			2				1																						
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 03, 2025

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 28, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92776120001	**MCD-INW-01A-TEMP-15**	Water	01/28/25 11:21	01/28/25 14:47
92776120002	**MCD-B-129-TEMP-29**	Water	01/27/25 17:07	01/28/25 14:47

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92776120001	**MCD-INW-01A-TEMP-15**	EPA 6020B	CW1	1
92776120002	**MCD-B-129-TEMP-29**	EPA 6020B	CW1	2

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

Sample: MCD-INW-01A-TEMP-15 **Lab ID: 92776120001** Collected: 01/28/25 11:21 Received: 01/28/25 14:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.011**	mg/L	0.0050	0.0016	1	01/28/25 15:23	01/28/25 17:53	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

Sample: MCD-B-129-TEMP-29 **Lab ID: 92776120002** Collected: 01/27/25 17:07 Received: 01/28/25 14:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**0.10**	mg/L	0.040	0.014	1	01/28/25 15:23	01/29/25 09:59	7440-42-8	
Cobalt	**0.00076J**	mg/L	0.0050	0.000098	1	01/28/25 15:23	01/29/25 09:59	7440-48-4	

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QUALITY CONTROL DATA

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

QC Batch: 911944
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92776120001, 92776120002

METHOD BLANK: 4688261 Matrix: Water
Associated Lab Samples: 92776120001, 92776120002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.0016	01/28/25 17:45	
Boron	mg/L	ND	0.040	0.014	01/28/25 17:45	
Cobalt	mg/L	ND	0.0050	0.000098	01/28/25 17:45	

LABORATORY CONTROL SAMPLE: 4688262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4688263 4688264

Parameter	Units	92776120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.011	0.1	0.1	0.11	0.11	101	101	75-125	0	20	
Boron	mg/L	0.31	1	1	1.4	1.4	110	108	75-125	2	20	
Cobalt	mg/L	0.00070J	0.1	0.1	0.10	0.10	101	102	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-Temporary Injection Well
Pace Project No.: 92776120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92776120001	**MCD-INW-01A-TEMP-15**	EPA 3005A	911944	EPA 6020B	912008
92776120002	**MCD-B-129-TEMP-29**	EPA 3005A	911944	EPA 6020B	912008

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

WO# : 92776120

92776120

Client Name: GA Power - McDonough (WSP)

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 1/28/25 DW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 9.4 Correction Factor: Add/Subtract (°C): 0

Temp should be above freezing to 6°C
☑ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 9.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☐ N/A	4. 1 DAY TAT requested
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92776120

PM: BV Due Date: 01/30/25

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power-McDonough Profile/EZ (Circle one) 320364 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1							1 ✓																							
2							1 ✓																							
3		2	1				1 ✓	i ✓																						
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92776120

Scan QR Code for instructions

Company Name:	Georgia Power- McDonough	Contact/Report To:	Joju Abraham
Street Address:	241 Ralph McGill Blvd NE, Bin 10160 Atlanta, GA 30308	Phone #:	(470)620-6176
		E-Mail:	jabraham@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	MCD-TEMPORARY INJECTION WELL	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site/Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0004
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [X] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 1/29 (24HR TAT)

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2

Identify Container Preservative Type***: 2 2 1

Analysis Requested: Total 6020-Co | AS | CO, B | TDS

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16474; Prelog / Bottle Ord. ID: EZ 3203847

Preservation non-conformance identified for sample:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Total 6020-Co	AS	CO, B	TDS	Sample Comment
INW-03	WT									X				
MCD-INW-01A-TEMP	WT	G	1/28	1121			1				X			W1
MCD-B-129-TEMP	WT	G	1/28	1707			1					X		W2
MCD-B-130-TEMP	WT	G	1/28	1242			5					X	X	Hold acid'l W3
														GW III & IV
														pending CCR
														TDS results

Additional Instructions from Pace®:

Collected By: (Printed Name) Dang Blumfield

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
WSP	1/28 1325	WSP	1/29 1325	
WSP	1/28 0247		1/25/25 1447	Delivered by: [X] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
				Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 19, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McDonough Permitting
Pace Project No.: 92768771

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Plant McDonough Permitting
Pace Project No.: 92768771

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant McDonough Permitting
Pace Project No.: 92768771

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92768771001	**MCD-INW-01-TEMP-15**	Water	12/11/24 11:40	12/11/24 16:03

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SAMPLE ANALYTE COUNT

Project: Plant McDonough Permitting
Pace Project No.: 92768771

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92768771001	**MCD-INW-01-TEMP-15**	EPA 6020B	CW1	1

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: Plant McDonough Permitting
Pace Project No.: 92768771

Sample: MCD-INW-01-TEMP-15 **Lab ID: 92768771001** Collected: 12/11/24 11:40 Received: 12/11/24 16:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.0016	1	12/13/24 13:08	12/14/24 14:10	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough Permitting
Pace Project No.: 92768771

QC Batch: 902551
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92768771001

METHOD BLANK: 4645234 Matrix: Water
Associated Lab Samples: 92768771001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.0016	12/14/24 13:34	

LABORATORY CONTROL SAMPLE: 4645235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4645236 4645237

Parameter	Units	92768849001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant McDonough Permitting
Pace Project No.: 92768771

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough Permitting
Pace Project No.: 92768771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92768771001	**MCD-INW-01-TEMP-15**	EPA 3005A	902551	EPA 6020B	902679

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA- Power

Project #: **WO# : 92768771**

92768771

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 12/11/24 RW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.7

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92768771

PM: BV **Due Date: 12/27/24**

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)
CC																												
1							1																					
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McDonough Permitting	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	US0037149.3190	Pace Profile #:	

Regulatory Agency
State / Location
GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: Arsenic								Residual Chlorine (Y/N)	
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	N			
1	MCD-INW-01-TEMP-15	WG	G	12/11/24	11:40		1			1							X									Do not report this project to EQuIS
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Do not report this project to EQuIS	N/A ZK MANN/PACE/GPM/WSP	12/11/24	1603		12/11/24	
					1603	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 19, 2024

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92768097001	**MCD-INW-02-Temp-29**	Water	12/09/24 10:30	12/10/24 09:40

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92768097001	**MCD-INW-02-Temp-29**	EPA 6020B	MT1	3

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

Sample: MCD-INW-02-Temp-29 **Lab ID: 92768097001** Collected: 12/09/24 10:30 Received: 12/10/24 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Beryllium	**0.0046**	mg/L	0.00050	0.000026	1	12/11/24 13:17	12/12/24 13:33	7440-41-7	
Cobalt	**0.23**	mg/L	0.0050	0.000098	1	12/11/24 13:17	12/12/24 13:33	7440-48-4	
Lithium	**0.060**	mg/L	0.030	0.00028	1	12/11/24 13:17	12/12/24 13:33	7439-93-2	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

QC Batch: 901909
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92768097001

METHOD BLANK: 4641814 Matrix: Water
Associated Lab Samples: 92768097001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	mg/L	ND	0.00050	0.000026	12/12/24 13:21	
Cobalt	mg/L	ND	0.0050	0.000098	12/12/24 13:21	
Lithium	mg/L	ND	0.030	0.00028	12/12/24 13:21	

LABORATORY CONTROL SAMPLE: 4641815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4641816 4641817

Parameter	Units	92768097001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	0.0046	0.1	0.1	0.097	0.096	92	92	75-125	0	20	
Cobalt	mg/L	0.23	0.1	0.1	0.32	0.33	91	97	75-125	2	20	
Lithium	mg/L	0.060	0.1	0.1	0.15	0.15	92	95	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-INW-02-Temp-29
Pace Project No.: 92768097

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92768097001	**MCD-INW-02-Temp-29**	EPA 3005A	901909	EPA 6020B	902046

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Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: WO# : 92768097

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: AC 12/10

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer:

☐ IR Gun ID: 92T078 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☒ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☒ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO#: 92768097

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # PM: BV Due Date: 12/24/24
CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client Georgia Power Profile (EZ) (Circle one) 3179490 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1							1																						
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions 92768097

Company Name:	Georgia Power- McDonough	Contact/Report To:	Joju Abraham
Street Address:	241 Ralph McGill Blvd NE, Bin 10160 Atlanta, GA 30308	Phone #:	(470)620-6176
		E-Mail:	jabraham@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	McDonough- INW-02	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0004 line 2
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 250mL

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: HNO_3

*** Preservative Types: (1) None, (2) HNO_3, (3) H_2SO_4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) $NaHSO_4$, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16474; Prelog / Bottle Ord. ID: EZ 3179490

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Total 6020-Li	Sample Comment	Preservation non-conformance identified for sample.
MCD-INW-02	WT	G	12/9/24	1030			1			X		

Additional Instructions from Pace®:
Sample for metals
Specifically focused on: Co, Li, Be SKK

Collected By: (Printed Name) SIMON KLINE
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	12/9/24 1200	Pace HNL	12/10/24 0940	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

APPENDIX B

Data Validation Summary September 2024

Quality Control Review of Analytical Data - Ash Pond AP-2 and 3/4
Submitted by Pace Analytical Services, LLC
September 2024

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Pace Analytical Services, LLC. for groundwater samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 (Site) between September 4 and September 11, 2024. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1. In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Groundwater samples were also analyzed for cations (magnesium, sodium, and potassium), alkalinity, sulfide, and total iron. Test methods included Inductively Coupled Plasma- Mass Spectrometry (ICP-MS) (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (ICP) (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315), Radium-228 (USEPA Method 9320), Alkalinity by Titration (Standard Methods 2320B), and Sulfide (Standard Methods SM 4500-S2D). Additional surface water samples were collected and analyzed for USEPA Methods 6020B, 6010D, 300.0, and Standard Methods 2540C, and SM2320B.

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory and field duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met with the exception of iron, magnesium, potassium, sodium, and arsenic.

Accuracy: Laboratory goals for accuracy were met with the exception of fluoride and sulfate as described in the qualification sections below.

Detection Limits and Blanks: Project goals for detection limits were met with the exception of TDS. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not

	provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization. Detections were found in certain blank results, as described in the qualification sections below.
Completeness:	There were no rejected analytical results for this event, resulting in a completion of 100%.
Representativeness:	All holding time and sample preservation requirements were met in accordance with specific analytical methods.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of precision accuracy, sensitivity, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data during the data validation process.

J	The analyte was reported above the method detection limit and below the reporting limit. The concentration reported is an estimated value.
J+	The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased high.
J-	The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased low.
U	The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site (see Table 1), qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Samples MCD-DGWC-20 and MCD-AP234-FD-2 were qualified as estimated, J, for iron, magnesium, potassium, sodium, and arsenic, due to field duplicate RPD exceeding the QC limits.
- SDGs 92751700 and 92751692 had matrix spike and matrix spike duplicates (MS/MSD) recoveries outside of QC criteria for calcium (total and dissolved), magnesium, sodium, iron, potassium, and sulfate. All corresponding sample results were greater than 4x the added spike concentration and therefore no qualification was required.
- SDGs 92751700 and 92751692 had MS/MSD recoveries below the QC limits for sulfate. The associated samples were qualified as estimated, bias low (J-).
- SDGs 92751700 and 92751692 had MS/MSD recoveries above QC limits for fluoride and the associated sample results were qualified as estimated, bias high (J+).
- Certain arsenic, cobalt, and TDS results in SDGs 92751692 and 92751700 were qualified as non-detect (U) when the analyte was detected at a similar level in an associated field blank sample. As

shown in Table 2, if the original sample results were below the reporting limit (RL), the results were qualified as non-detect (U) and the RL was reported as the new results. If the original sample results were greater than the RL, the results were qualified U and the RL was raised to the sample result.

- Certain arsenic and dissolved antimony results in SDG 92751692 were qualified as non-detect, U, when the analyte was detected at a similar level in an associated laboratory method blank sample. As shown in Table 2, if the original sample results were below the RL, the results were qualified as non-detect (U) and the RL was reported as the new result.

WSP reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between September 4 and September 11, 2024, in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use.

REFERENCE

Paar, J.G. & Porterfield, D.R. *Evaluation of Radiochemical Data Usability.* United States Department of Energy, Office of Environmental Restoration and Waste Management, Oak Ridge National Laboratory, April 1997.

US EPA, November 2020, National Functional Guidelines for Inorganic Superfund Methods Data Review, Office of Superfund Remediation and Technology Innovation. OLEM 9240.0-51 [EPA 540-R-20-005]. Washington. DC, November 2020.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data By Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy,* Revision 2.0.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data By Cold Vapor Atomic Absorption,* Revision 2.0.

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92751673	MCD-DGWA-70A	9/4/2024	92751673001	WG	-	X	X	X	X	X	X	X	-	-
92751673	MCD-DGWA-71	9/4/2024	92751673002	WG	-	X	X	X	X	X	X	X	-	-
92751673	MCD-DGWA-53	9/11/2024	92751673003	WG	-	X	X	X	X	X	X	X	-	-
92751664	MCD-DGWA-70A	9/4/2024	92751664001	WG	-	-	-	-	-	-	-	-	X	X
92751664	MCD-DGWA-71	9/4/2024	92751664002	WG	-	-	-	-	-	-	-	-	X	X
92751664	MCD-DGWA-53	9/11/2024	92751664003	WG	-	-	-	-	-	-	-	-	X	X
92752200	MCD-B-100	9/5/2024	92752200001	WG	-	X	X	X	X	X	X	X	-	-
92752200	MCD-B-62	9/9/2024	92752200002	WG	-	X	X	X	X	X	X	X	-	-
92752198	MCD-B-100	9/5/2024	92752198001	WG	-	-	-	-	-	-	-	-	X	X
92752198	MCD-B-62	9/9/2024	92752198002	WG	-	-	-	-	-	-	-	-	X	X
92751692	MCD-B-92	9/4/2024	92751692001	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-93	9/4/2024	92751692002	WG	-	X	X	X	X	X	X	-	-	-
92751692	MCD-B-97	9/4/2024	92751692003	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-AP234-FD-4	9/4/2024	92751692004	WG	FD (MCD-B-97)	X	X	X	X	X	X	X	-	-
92751692	MCD-AP234-EB-5	9/4/2024	92751692005	WQ	EB (MCD-B-93)	X	X	X	X	X	X	X	-	-
92751692	MCD-B-98	9/5/2024	92751692006	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-83	9/6/2024	92751692007	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-63	9/6/2024	92751692008	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-66	9/9/2024	92751692009	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-82	9/9/2024	92751692010	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-AP234-FD-5	9/9/2024	92751692011	WG	FD (MCD-B-82)	X	X	X	X	X	X	X	-	-
92751692	MCD-B-106D	9/9/2024	92751692012	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-107D	9/9/2024	92751692013	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-AP234-FB-4	9/9/2024	92751692014	WQ	FB (MCD-B-107D)	X	X	X	X	X	X	X	-	-
92751692	MCD-B-108D	9/9/2024	92751692015	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-AP234-EB-4	9/9/2024	92751692016	WQ	EB (MCD-B-108D)	X	X	X	X	X	X	X	-	-
92751692	MCD-B-111D	9/9/2024	92751692017	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-120D	9/9/2024	92751692018	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-125D	9/9/2024	92751692019	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-102D	9/10/2024	92751692020	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-88	9/10/2024	92751692021	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-104D	9/10/2024	92751692022	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-122D	9/10/2024	92751692023	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-AP234-FB-5	9/10/2024	92751692024	WQ	FB (MCD-B-122D)	X	X	X	X	X	X	X	-	-
92751692	MCD-B-101D	9/10/2024	92751692025	WG	-	X	X	X	X	X	X	X	-	-
92751692	MCD-B-77	9/11/2024	92751692026	WG	-	X	X	X	X	X	X	X	-	-

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92751692	MCD-B-56	9/11/2024	92751692027	WG	-	X	X	X	X	X	X	X	-	-
92751679	MCD-B-92	9/4/2024	92751679001	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-93	9/4/2024	92751679002	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-97	9/4/2024	92751679003	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-AP234-FD-4	9/4/2024	92751679004	WG	FD (MCD-B-97)	-	-	-	-	-	-	-	X	X
92751679	MCD-AP234-EB-5	9/4/2024	92751679005	WQ	EB (MCD-B-93)	-	-	-	-	-	-	-	X	X
92751679	MCD-B-98	9/5/2024	92751679006	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-83	9/6/2024	92751679007	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-63	9/6/2024	92751679008	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-66	9/9/2024	92751679009	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-82	9/9/2024	92751679010	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-AP234-FD-5	9/9/2024	92751679011	WG	FD (MCD-B-82)	-	-	-	-	-	-	-	X	X
92751679	MCD-B-106D	9/9/2024	92751679012	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-107D	9/9/2024	92751679013	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-AP234-FB-4	9/9/2024	92751679014	WQ	FB (MCD-B-107D)	-	-	-	-	-	-	-	X	X
92751679	MCD-B-108D	9/9/2024	92751679015	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-AP234-EB-4	9/9/2024	92751679016	WQ	EB (MCD-B-108D)	-	-	-	-	-	-	-	X	X
92751679	MCD-B-111D	9/9/2024	92751679017	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-120D	9/9/2024	92751679018	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-125D	9/9/2024	92751679019	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-102D	9/10/2024	92751679020	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-88	9/10/2024	92751679021	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-104D	9/10/2024	92751679022	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-122D	9/10/2024	92751679023	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-AP234-FB-5	9/10/2024	92751679024	WQ	FB (MCD-B-122D)	-	-	-	-	-	-	-	X	X
92751679	MCD-B-101D	9/10/2024	92751679025	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-77	9/11/2024	92751679026	WG	-	-	-	-	-	-	-	-	X	X
92751679	MCD-B-56	9/11/2024	92751679027	WG	-	-	-	-	-	-	-	-	X	X
92751700	MCD-DGWC-21	9/4/2024	92751700001	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-AP234-FB-2	9/4/2024	92751700002	WQ	FB (MCD-DGWC-21)	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-5	9/6/2024	92751700003	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-4	9/6/2024	92751700004	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-AP234-FB-3	9/6/2024	92751700005	WQ	FB (MCD-DGWC-5)	X	X	X	X	X	X	X	-	-
92751700	MCD-AP234-EB-3	9/6/2024	92751700006	WQ	EB (MCD-DGWC-4)	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-12	9/5/2024	92751700007	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-13	9/5/2024	92751700008	WG	-	X	X	X	X	X	X	X	-	-

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92751700	MCD-DGWC-20	9/5/2024	92751700009	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-23	9/5/2024	92751700010	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-42	9/5/2024	92751700011	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-47	9/5/2024	92751700012	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-AP234-FD-3	9/5/2024	92751700013	WG	FD (MCD-DGWC-13)	X	X	X	X	X	X	X	-	-
92751700	MCD-AP234-FD-2	9/5/2024	92751700014	WG	FD (MCD-DGWC-20)	X	X	X	X	X	X	X	-	-
92751700	MCD-AP234-EB-2	9/5/2024	92751700015	WQ	EB (MCD-DGWC-23)	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-15	9/5/2024	92751700016	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-19	9/5/2024	92751700017	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-2	9/9/2024	92751700018	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-8	9/9/2024	92751700019	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-11	9/9/2024	92751700020	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-22	9/9/2024	92751700021	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-14	9/10/2024	92751700022	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-17	9/10/2024	92751700023	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-48	9/10/2024	92751700024	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-10	9/11/2024	92751700025	WG	-	X	X	X	X	X	X	X	-	-
92751700	MCD-DGWC-9	9/11/2024	92751700026	WG	-	X	X	X	X	X	X	X	-	-
92751698	MCD-DGWC-21	9/4/2024	92751698001	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-AP234-FB-2	9/4/2024	92751698002	WQ	FB (MCD-DGWC-21)	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-5	9/6/2024	92751698003	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-4	9/6/2024	92751698004	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-AP234-FB-3	9/6/2024	92751698005	WQ	FB (MCD-DGWC-5)	-	-	-	-	-	-	-	X	X
92751698	MCD-AP234-EB-3	9/6/2024	92751698006	WQ	EB (MCD-DGWC-4)	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-12	9/5/2024	92751698007	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-13	9/5/2024	92751698008	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-20	9/5/2024	92751698009	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-23	9/5/2024	92751698010	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-42	9/5/2024	92751698011	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-47	9/5/2024	92751698012	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-AP234-FD-3	9/5/2024	92751698013	WG	FD (MCD-DGWC-13)	-	-	-	-	-	-	-	X	X
92751698	MCD-AP234-FD-2	9/5/2024	92751698014	WG	FD (MCD-DGWC-20)	-	-	-	-	-	-	-	X	X
92751698	MCD-AP234-EB-2	9/5/2024	92751698015	WQ	EB (MCD-DGWC-23)	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-15	9/5/2024	92751698016	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-19	9/5/2024	92751698017	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-2	9/9/2024	92751698018	WG	-	-	-	-	-	-	-	-	X	X

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92751698	MCD-DGWC-8	9/9/2024	92751698019	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-11	9/9/2024	92751698020	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-22	9/9/2024	92751698021	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-14	9/10/2024	92751698022	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-17	9/10/2024	92751698023	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-48	9/10/2024	92751698024	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-10	9/11/2024	92751698025	WG	-	-	-	-	-	-	-	-	X	X
92751698	MCD-DGWC-9	9/11/2024	92751698026	WG	FD (SCH-SGWC-7)	-	-	-	-	-	-	-	X	X
92752880	MCD-UT01_US	9/10/2024	92752880001	WS	-	-	X	X	X	X	X	-	-	-
92752880	MCD-UT02	9/10/2024	92752880002	WS	-	-	X	X	X	X	X	-	-	-
92752880	MCD-UT03	9/10/2024	92752880003	WS	-	-	X	X	X	X	X	-	-	-
92752880	MCD-UT01_DS	9/10/2024	92752880004	WS	-	-	X	X	X	X	X	-	-	-
92752880	MCD-CR-0.1	9/10/2024	92752880005	WS	-	-	X	X	X	X	X	-	-	-
92752880	MCD-CR+0.2	9/10/2024	92752880006	WS	-	-	X	X	X	X	X	-	-	-
92752880	MCD-CR+0.4	9/10/2024	92752880007	WS	-	-	X	X	X	X	X	-	-	-
92752882	MCD-DW_DS	9/10/2024	92752882001	WS	-	-	X	X	X	X	X	-	-	-
92752882	MCD-DW_US	9/10/2024	92752882002	WS	-	-	X	X	X	X	X	-	-	-
92752882	MCD-CR-0.2	9/10/2024	92752882003	WS	-	-	X	X	X	X	X	-	-	-
92752882	MCD-CR-0.5	9/10/2024	92752882004	WS	-	-	X	X	X	X	X	-	-	-

Abbreviations:

SDG- Sample Delivery Group
QC - Quality Control
SM - Standard Method
WG - Groundwater
WQ - Water Quality
WS - Surface Water
TDS - Total dissolved solids
FD - Field Duplicate
EB - Equipment Blank
FB - Field Blank

TABLE 2
Qualifier Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

SDG	*Sample Name*	*Constituent*	*New Result*	*New RL or MDC*	*Qualifier*	*Reason*	*Reason Code*
92751692	MCD-B-107D	Arsenic	0.005	-	U	Field blank contamination	BF1
92751692	MCD-B-108D	Arsenic	0.005	-	U	Equipment blank contamination	BEL
92751692	MCD-B-92	Arsenic	0.005	-	U	Method blank contamination	BL1
92751692	MCD-B-93	Arsenic	0.005	-	U	Method blank contamination	BL1
92751692	MCD-B-97	Arsenic	0.005	-	U	Method blank contamination	BL1
92751692	MCD-AP234-FD-4	Arsenic	0.005	-	U	Method blank contamination	BL1
92751692	MCD-B-98	Fluoride	-	-	J+	MSD recovery was above QC limits	MS1
92751692	MCD-B-98	Sulfate	-	-	J-	MSD recovery was above QC limits	MS1
92751692	MCD-B-98	Antimony, dissolved	0.003	-	U	Method blank contamination	BL1
92751700	MCD-DGWC-4	TDS	-	1290	U	Equipment blank contamination	BEH
92751700	MCD-DGWC-23	Cobalt	0.005	-	U	Equipment blank contamination	BEL
92751700	MCD-DGWC-21	Fluoride	-	-	J+	Matrix spike %R does not meet quality control criteria	MS1
92751700	MCD-DGWC-15	Sulfate	-	-	J-	Matrix spike %R does not meet quality control criteria	MS1
92751700	MCD-DGWC-2	Fluoride	-	-	J+	Matrix spike %R does not meet quality control criteria	MS1
92751700	MCD-DGWC-2	Sulfate	-	-	J-	Matrix spike %R does not meet quality control criteria	MS1
92751700	MCD-DGWC-10	Fluoride	-	-	J+	Matrix spike %R does not meet quality control criteria	MS1
92751700	MCD-DGWC-20	Iron	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2
92751700	MCD-AP234-FD-2	Iron	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2
92751700	MCD-DGWC-20	Magnesium	-	-	J	Field duplicate RPD does not meet quality control criteria	FD1
92751700	MCD-AP234-FD-2	Magnesium	-	-	J	Field duplicate RPD does not meet quality control criteria	FD1
92751700	MCD-DGWC-20	Potassium	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2
92751700	MCD-AP234-FD-2	Potassium	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2
92751700	MCD-DGWC-20	Sodium	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2
92751700	MCD-AP234-FD-2	Sodium	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2
92751700	MCD-DGWC-20	Arsenic	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2
92751700	MCD-AP234-FD-2	Arsenic	-	-	J	Field duplicate RPD does not meet quality control criteria	FD2

Abbreviations:
RL : Reporting limit
MDC : Minimum detectable concentration
SDG : Sample delivery group
MDL: Method detection limit

RPD: Relative percent difference

Qualifier
J- : The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased low.
J+ : The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased high.
J: The analyte was reported above the method detection limit and below the reporting limit. The concentration reported is an estimated value.
U: The analyte was not detected above the method detection limit.

APPENDIX B

Laboratory Accreditation

PEOPLE ADVANCING SCIENCE

Stipulation of Approval for Commercial Environmental Laboratories

Pursuant to the *Rules and Regulations of the State of Georgia* (O.C.G.A. 12-2-9) and *Rule 391-3-26.05* for "Commercial Environmental Laboratories", any person submitting data prepared by a commercial analytical laboratory to the Division for regulatory purposes shall stipulate that the laboratory is approved.

The stipulations for which Pace-Atlanta is approved, is as follows:

Laboratory:	**Pace Analytical Services, LLC – Atlanta GA** 110 Technology Parkway Peachtree Corners, GA 30092 Phone: (770) 734-4200 Fax: (770) 734-4201
Accredited By:	Authority Florida Department of Health (FL - DOH) Program Florida Environmental Laboratory Certification Program (TNI/NELAP)
Accreditation ID:	E87315
Scope of Accreditation:	Non-Potable Water (NPW) - General Chemistry (Wet Chemistry) - Metals - Microbiology Solid and Chemical Materials (SCM) - General Chemistry - Metals - Microbiology
Effective Dates:	July 1, 2024 – June 30, 2025

Any question regarding this stipulation of approval may be directed to Pace-Atlanta at (770) 734-4200. Thank you for your business and please do not hesitate to contact us if we can be of further assistance.

Sincerely,

Kyle Henderson
Quality Manager – Atlanta Laboratory
Pace Analytical Services, LLC

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

06/24/2024

Raelyn Sylvester
Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601

Re: Accreditation Status Change (A24-00282-11)
DEP Lab # 65-00282

Dear Laboratory Supervisor:

Recently, the Laboratory Accreditation Program of the Pennsylvania Department of Environmental Protection ("Department") became aware of an error that occurred during corrections that were being completed last year. The Department has changed your accreditation for EPA 9045D in SCM from pH to Corrosivity (pH) Your accreditation status in the Pennsylvania Environmental Laboratory Accreditation Program has changed due to this change. Your current accreditation status is as shown on the attached listing. That list of accredited fields of testing replaces all previous lists.

Your laboratory shall not use this Scope of Accreditation to imply endorsement by the Department. In order to maintain accreditation, your laboratory must remain in compliance with Departmental regulations.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

If you have any questions, please contact your laboratory's accreditation officer Rachel Pepper at 717-346-8204 or rapepper@pa.gov.

Sincerely,

Annmarie Beach

Annmarie Beach, Chief
Laboratory Accreditation Program

Enclosure

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certifies That

65-00282

Pace Analytical Services LLC - Greensburg PA

1638 Roseytown Suites 2, 3, & 4, Greensburg, PA, 15601

Having duly met the requirement of
The act of June 29, 2002 (P.L. 596, No. 90)
dealing with Environmental Laboratories Accreditation
(27 Pa. C.S. 4104-4113) and the
National Environmental Laboratory Accreditation Program Standard
is hereby approved as an

Accredited Laboratory

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

NELAP accreditation granted by the PA DEP to an environmental laboratory is conditioned upon continued compliance with the current edition of the NELAC Standard or TNI Standard and the following Subchapters and Sections of 25 Pa. Code Chapter 252: Subchapter A (relating to general provisions); Subchapter B (relating to application, fees and supporting documents); Subchapter E (relating to proficiency test study requirements); Subchapter F (relating to assessment requirements); Subchapter G (relating to miscellaneous provisions); Section 252.307; and Section 252.401.

Expiration Date: **03/31/2025**

Certificate Number: **025**

Annmarie Beach

Annmarie Beach, Chief
Laboratory Accreditation Program
Bureau of Laboratories

Continued accreditation status depends on successful ongoing participation in the program
Certificate not transferable Surrender upon revocation
To be conspicuously displayed at the Laboratory
Not valid unless accompanied by a valid Scope of Accreditation
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania
Customers are urged to verify the laboratory's current accreditation status
PA DEP is a NELAP recognized accreditation body

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Drinking Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
ASTM D5174-97		30031608	Uranium (mass)	1184	NELAP	PA	11/30/2022
EPA 900.0		10242601	Gross alpha	2830	NELAP	PA	05/27/2008
EPA 900.0		10242601	Gross beta	2840	NELAP	PA	05/27/2008
EPA 901.1		10308608	Gamma emitters	2826	NELAP	PA	06/23/2020
EPA 903.0		10244005	Total alpha radium	2750	NELAP	PA	03/31/2017
EPA 903.1		10309601	Radium-226	2965	NELAP	PA	07/15/2011
EPA 904.0		10309805	Radium-228	2970	NELAP	PA	05/27/2008
EPA 905.0		10310006	Strontium-90	3005	NELAP	PA	02/01/2011
EPA 905.0		10310006	Total Radiostrontium	3010	NELAP	PA	08/03/2022
EPA 906.0		10310200	Tritium	3030	NELAP	PA	05/27/2008
HASL 300 U-02-RC	28th ed.	90011408	Uranium-234	3036	NELAP	PA	01/16/2014
HASL 300 U-02-RC	28th ed.	90011408	Uranium-235	3037	NELAP	PA	01/16/2014
HASL 300 U-02-RC	28th ed.	90011408	Uranium-238	3038	NELAP	PA	01/16/2014
NJ ECLS-R-GA	8th ed	90014394	Gross alpha (including radium & U, excluding radon)		NELAP	PA	08/01/2016
SM 7110C - 1991	19th ed.	20158401	Gross alpha	2830	NELAP	PA	09/25/2008
SM 7110C - 1996	20th ed.	20158605	Gross alpha	2830	NELAP	PA	09/25/2008
SM 7500-Rn B - 1996	20th ed.	20173700	Radon-222	2980	NELAP	PA	10/10/2008
SOP (00282) ENV-SOP-GBUR-0068	5		Thorium-228	1171	NELAP	PA	02/09/2024
SOP (00282) ENV-SOP-GBUR-0068	5		Thorium-230	3027	NELAP	PA	02/09/2024
SOP (00282) ENV-SOP-GBUR-0068	5		Thorium-232	3033	NELAP	PA	02/09/2024

Annmarie Beach

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Drinking Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
SOP (00282) ENV-SOP-GBUR-0068	5		Uranium-234	3036	NELAP	PA	02/09/2024
SOP (00282) ENV-SOP-GBUR-0068	5		Uranium-238	3038	NELAP	PA	02/09/2024

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
ASTM D516-16		30002267	Sulfate	2000	NELAP	PA	11/21/2022
ASTM D5174-97		30031608	Uranium (mass)	1184	NELAP	PA	11/30/2022
ASTM D5811-08		30025071	Strontium-89	2995	NELAP	PA	08/03/2022
ASTM D5811-08		30025071	Strontium-90	3005	NELAP	PA	08/03/2022
ASTM D5811-08		30025071	Total Radiostrontium	3010	NELAP	PA	08/03/2022
ASTM D93-13		30005755	Flashpoint	6117	NELAP	PA	08/25/2021
DOE 4.5.5	27th ed	90000241	Thorium-228	1171	NELAP	PA	07/10/2023
DOE 4.5.5	27th ed	90000241	Thorium-230	3027	NELAP	PA	07/10/2023
DOE 4.5.5	27th ed	90000241	Thorium-232	3033	NELAP	PA	07/10/2023
EPA 1010	B	10234830	Flashpoint	6117	NELAP	PA	08/25/2021
EPA 1010	B	10234830	Ignitability	1780	NELAP	PA	08/25/2021
EPA 120.1		10006403	Conductivity	1610	NELAP	PA	04/21/2014
EPA 1311		10118806	Toxicity characteristic leaching procedure (TCLP)	1466	NELAP	PA	03/29/2005

Annmarie Beach

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DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 1312		10119003	Synthetic precipitation leaching procedure (SPLP)	1460	NELAP	PA	03/29/2005
EPA 160.4		10010409	Residue, volatile	1970	NELAP	PA	07/28/2006
EPA 1664	A	10127807	Oil and grease	1803	NELAP	PA	10/01/2014
EPA 1664	A	10127807	Total recoverable petroleum hydrocarbons (TRPH)	1935	NELAP	PA	08/17/2017
EPA 180.1	2	10011800	Turbidity	2055	NELAP	PA	07/28/2006
EPA 300.0	2.1	10053200	Bromide	1540	NELAP	PA	05/18/2009
EPA 300.0	2.1	10053200	Chloride	1575	NELAP	PA	09/29/2010
EPA 300.0	2.1	10053200	Fluoride	1730	NELAP	PA	05/06/2009
EPA 300.0	2.1	10053200	Sulfate	2000	NELAP	PA	09/29/2010
EPA 335.4	1.0	10061402	Total cyanide	1645	NELAP	PA	05/06/2009
EPA 350.1	2.0	10063602	Ammonia as N	1515	NELAP	PA	05/06/2009
EPA 351.2	2.0	10065404	Kjeldahl nitrogen, total (TKN)	1795	NELAP	PA	05/06/2009
EPA 3510	C	10138202	Separatory funnel liquid-liquid extraction	1444	NELAP	PA	03/29/2005
EPA 3660	B	10148400	Sulfur cleanup	1456	NELAP	PA	03/29/2005
EPA 3665	A	10148808	Sulfuric acid/permanganate clean-up	1458	NELAP	PA	03/29/2005
EPA 410.4	2.0	10077404	Chemical oxygen demand (COD)	1565	NELAP	PA	05/06/2009
EPA 420.1		10079400	Total phenolics	1905	NELAP	PA	05/06/2009
EPA 5030	B	10153409	Aqueous-phase purge-and-trap	1406	NELAP	PA	03/29/2005
EPA 5030	C	10284603	Aqueous-phase purge-and-trap	1406	NELAP	PA	09/18/2013
EPA 608.3		10296614	4,4'-DDD	7355	NELAP	PA	03/21/2019
EPA 608.3		10296614	4,4'-DDE	7360	NELAP	PA	03/21/2019
EPA 608.3		10296614	4,4'-DDT	7365	NELAP	PA	03/21/2019

Annmarie Beach

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 608.3		10296614	Aldrin (HHDN)	7025	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1016 (PCB-1016)	8880	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1221 (PCB-1221)	8885	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1232 (PCB-1232)	8890	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1242 (PCB-1242)	8895	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1248 (PCB-1248)	8900	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1254 (PCB-1254)	8905	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1260 (PCB-1260)	8910	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1262 (PCB-1262)	8912	NELAP	PA	03/21/2019
EPA 608.3		10296614	Aroclor-1268 (PCB-1268)	8913	NELAP	PA	03/21/2019
EPA 608.3		10296614	Chlordane (tech.)	7250	NELAP	PA	03/21/2019
EPA 608.3		10296614	Dieldrin	7470	NELAP	PA	03/21/2019
EPA 608.3		10296614	Endosulfan I	7510	NELAP	PA	03/21/2019
EPA 608.3		10296614	Endosulfan II	7515	NELAP	PA	03/21/2019
EPA 608.3		10296614	Endosulfan sulfate	7520	NELAP	PA	03/21/2019
EPA 608.3		10296614	Endrin	7540	NELAP	PA	03/21/2019
EPA 608.3		10296614	Endrin aldehyde	7530	NELAP	PA	03/21/2019
EPA 608.3		10296614	Endrin ketone	7535	NELAP	PA	04/01/2021
EPA 608.3		10296614	Heptachlor	7685	NELAP	PA	03/21/2019
EPA 608.3		10296614	Heptachlor epoxide	7690	NELAP	PA	03/21/2019
EPA 608.3		10296614	Methoxychlor	7810	NELAP	PA	08/02/2019
EPA 608.3		10296614	Toxaphene (Chlorinated camphene)	8250	NELAP	PA	03/21/2019

Annmarie Beach

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 608.3		10296614	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	NELAP	PA	03/21/2019
EPA 608.3		10296614	alpha-Chlordane	7240	NELAP	PA	03/21/2019
EPA 608.3		10296614	beta-BHC (beta-Hexachlorocyclohexane)	7115	NELAP	PA	03/21/2019
EPA 608.3		10296614	delta-BHC (delta-Hexachlorocyclohexane)	7105	NELAP	PA	03/21/2019
EPA 608.3		10296614	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	7120	NELAP	PA	03/21/2019
EPA 608.3		10296614	gamma-Chlordane	7245	NELAP	PA	03/21/2019
EPA 624.1		10298121	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,1,1-Trichloroethane	5160	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	04/01/2021
EPA 624.1		10298121	1,1,2-Trichloroethane	5165	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,1-Dichloroethane	4630	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,1-Dichloropropene	4670	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2,3-Trichlorobenzene	5150	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2,4-Trichlorobenzene	5155	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2,4-Trimethylbenzene	5210	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	08/02/2019

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	1,2-Dichloroethane	4635	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,2-Dichloropropane	4655	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,3,5-Trimethylbenzene	5215	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,3-Dichloropropane	4660	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	08/02/2019
EPA 624.1		10298121	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	08/02/2019
EPA 624.1		10298121	2,2-Dichloropropane	4665	NELAP	PA	08/02/2019
EPA 624.1		10298121	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	08/02/2019
EPA 624.1		10298121	2-Chloroethyl vinyl ether	4500	NELAP	PA	08/02/2019
EPA 624.1		10298121	2-Chlorotoluene	4535	NELAP	PA	08/02/2019
EPA 624.1		10298121	2-Hexanone	4860	NELAP	PA	08/02/2019
EPA 624.1		10298121	2-Methylnaphthalene	6385	NELAP	PA	04/01/2021
EPA 624.1		10298121	2-Nitropropane	5020	NELAP	PA	08/02/2019
EPA 624.1		10298121	4-Chlorotoluene	4540	NELAP	PA	08/02/2019
EPA 624.1		10298121	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	08/02/2019
EPA 624.1		10298121	Acetone	4315	NELAP	PA	08/02/2019
EPA 624.1		10298121	Acetonitrile	4320	NELAP	PA	08/02/2019
EPA 624.1		10298121	Acrolein (Propenal)	4325	NELAP	PA	08/02/2019
EPA 624.1		10298121	Acrylonitrile	4340	NELAP	PA	08/02/2019
EPA 624.1		10298121	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	08/02/2019
EPA 624.1		10298121	Benzene	4375	NELAP	PA	08/02/2019

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	Bromobenzene	4385	NELAP	PA	08/02/2019
EPA 624.1		10298121	Bromochloromethane	4390	NELAP	PA	08/02/2019
EPA 624.1		10298121	Bromodichloromethane	4395	NELAP	PA	08/02/2019
EPA 624.1		10298121	Bromoform	4400	NELAP	PA	08/02/2019
EPA 624.1		10298121	Carbon disulfide	4450	NELAP	PA	08/02/2019
EPA 624.1		10298121	Carbon tetrachloride	4455	NELAP	PA	08/02/2019
EPA 624.1		10298121	Chlorobenzene	4475	NELAP	PA	08/02/2019
EPA 624.1		10298121	Chloroethane	4485	NELAP	PA	08/02/2019
EPA 624.1		10298121	Chloroform	4505	NELAP	PA	08/02/2019
EPA 624.1		10298121	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	08/02/2019
EPA 624.1		10298121	Cyclohexane	4555	NELAP	PA	08/02/2019
EPA 624.1		10298121	Cyclohexanone	4560	NELAP	PA	08/02/2019
EPA 624.1		10298121	Dibromochloromethane	4575	NELAP	PA	08/02/2019
EPA 624.1		10298121	Dibromomethane	4595	NELAP	PA	08/02/2019
EPA 624.1		10298121	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	08/02/2019
EPA 624.1		10298121	Diethyl ether (Ethyl ether)	4725	NELAP	PA	08/02/2019
EPA 624.1		10298121	Diisopropyl ether (DIPE)	9375	NELAP	PA	08/02/2019
EPA 624.1		10298121	Ethanol	4750	NELAP	PA	08/02/2019
EPA 624.1		10298121	Ethyl acetate	4755	NELAP	PA	08/02/2019
EPA 624.1		10298121	Ethyl methacrylate	4810	NELAP	PA	08/02/2019
EPA 624.1		10298121	Ethylbenzene	4765	NELAP	PA	08/02/2019
EPA 624.1		10298121	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/02/2019

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	Iodomethane (Methyl iodide)	4870	NELAP	PA	08/02/2019
EPA 624.1		10298121	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	08/02/2019
EPA 624.1		10298121	Isopropylbenzene (Cumene)	4900	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methacrylonitrile	4925	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methyl acetate	4940	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methyl bromide (Bromomethane)	4950	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methyl chloride (Chloromethane)	4960	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methylcyclohexane	4965	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methylene chloride (Dichloromethane)	4975	NELAP	PA	08/02/2019
EPA 624.1		10298121	Methylmethacrylate	4990	NELAP	PA	08/02/2019
EPA 624.1		10298121	Naphthalene	5005	NELAP	PA	08/02/2019
EPA 624.1		10298121	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	08/02/2019
EPA 624.1		10298121	Styrene	5100	NELAP	PA	08/02/2019
EPA 624.1		10298121	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	08/02/2019
EPA 624.1		10298121	Tetrahydrofuran (THF)	5120	NELAP	PA	08/02/2019
EPA 624.1		10298121	Toluene	5140	NELAP	PA	08/02/2019
EPA 624.1		10298121	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	08/02/2019
EPA 624.1		10298121	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	08/02/2019
EPA 624.1		10298121	Vinyl acetate	5225	NELAP	PA	08/02/2019
EPA 624.1		10298121	Vinyl chloride (Chloroethene)	5235	NELAP	PA	08/02/2019
EPA 624.1		10298121	Xylenes, total	5260	NELAP	PA	08/02/2019

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Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 624.1		10298121	cis-1,2-Dichloroethene	4645	NELAP	PA	08/02/2019
EPA 624.1		10298121	cis-1,3-Dichloropropene	4680	NELAP	PA	08/02/2019
EPA 624.1		10298121	m+p-Xylene	5240	NELAP	PA	08/02/2019
EPA 624.1		10298121	n-Butylbenzene	4435	NELAP	PA	08/02/2019
EPA 624.1		10298121	n-Hexane	4855	NELAP	PA	08/02/2019
EPA 624.1		10298121	n-Propylbenzene	5090	NELAP	PA	08/02/2019
EPA 624.1		10298121	o-Xylene	5250	NELAP	PA	08/02/2019
EPA 624.1		10298121	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	08/02/2019
EPA 624.1		10298121	sec-Butylbenzene	4440	NELAP	PA	08/02/2019
EPA 624.1		10298121	tert-Amyl methyl ether (TAME)	4370	NELAP	PA	08/02/2019
EPA 624.1		10298121	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	08/02/2019
EPA 624.1		10298121	tert-Butyl ethyl ether	4770	NELAP	PA	08/02/2019
EPA 624.1		10298121	tert-Butylbenzene	4445	NELAP	PA	08/02/2019
EPA 624.1		10298121	trans-1,2-Dichloroethene	4700	NELAP	PA	08/02/2019
EPA 624.1		10298121	trans-1,3-Dichloropropene	4685	NELAP	PA	08/02/2019
EPA 624.1		10298121	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	08/02/2019
EPA 625.1		10300024	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	08/02/2019
EPA 625.1		10300024	1,2,4-Trichlorobenzene	5155	NELAP	PA	04/01/2021
EPA 625.1		10300024	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	08/02/2019
EPA 625.1		10300024	1,2-Diphenylhydrazine	6220	NELAP	PA	08/02/2019
EPA 625.1		10300024	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	08/02/2019
EPA 625.1		10300024	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	08/02/2019

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Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	1-Methylnaphthalene	6380	NELAP	PA	08/02/2019
EPA 625.1		10300024	2,2'-oxybis(1-Chloropropane)		NELAP	PA	08/02/2019
EPA 625.1		10300024	2,4,5-Trichlorophenol	6835	NELAP	PA	08/02/2019
EPA 625.1		10300024	2,4,6-Trichlorophenol	6840	NELAP	PA	08/02/2019
EPA 625.1		10300024	2,4-Dichlorophenol	6000	NELAP	PA	08/02/2019
EPA 625.1		10300024	2,4-Dimethylphenol	6130	NELAP	PA	08/02/2019
EPA 625.1		10300024	2,4-Dinitrophenol	6175	NELAP	PA	08/02/2019
EPA 625.1		10300024	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	08/02/2019
EPA 625.1		10300024	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	08/02/2019
EPA 625.1		10300024	2-Chloronaphthalene	5795	NELAP	PA	08/02/2019
EPA 625.1		10300024	2-Chlorophenol	5800	NELAP	PA	08/02/2019
EPA 625.1		10300024	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	08/02/2019
EPA 625.1		10300024	2-Methylnaphthalene	6385	NELAP	PA	08/02/2019
EPA 625.1		10300024	2-Methylphenol (o-Cresol)	6400	NELAP	PA	08/02/2019
EPA 625.1		10300024	2-Nitroaniline	6460	NELAP	PA	08/02/2019
EPA 625.1		10300024	2-Nitrophenol	6490	NELAP	PA	08/02/2019
EPA 625.1		10300024	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	08/02/2019
EPA 625.1		10300024	3,3'-Dichlorobenzidine	5945	NELAP	PA	08/02/2019
EPA 625.1		10300024	3-Nitroaniline	6465	NELAP	PA	08/02/2019
EPA 625.1		10300024	4-Bromophenyl phenyl ether	5660	NELAP	PA	08/02/2019
EPA 625.1		10300024	4-Chloro-3-methylphenol	5700	NELAP	PA	08/02/2019
EPA 625.1		10300024	4-Chloroaniline	5745	NELAP	PA	08/02/2019

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	4-Chlorophenyl phenyl ether	5825	NELAP	PA	08/02/2019
EPA 625.1		10300024	4-Nitroaniline	6470	NELAP	PA	08/02/2019
EPA 625.1		10300024	4-Nitrophenol	6500	NELAP	PA	08/02/2019
EPA 625.1		10300024	Acenaphthene	5500	NELAP	PA	08/02/2019
EPA 625.1		10300024	Acenaphthylene	5505	NELAP	PA	08/02/2019
EPA 625.1		10300024	Acetophenone	5510	NELAP	PA	08/02/2019
EPA 625.1		10300024	Aniline	5545	NELAP	PA	08/02/2019
EPA 625.1		10300024	Anthracene	5555	NELAP	PA	08/02/2019
EPA 625.1		10300024	Atrazine	7065	NELAP	PA	08/02/2019
EPA 625.1		10300024	Azobenzene	5562	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzaldehyde	5570	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzidine	5595	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzo[a]anthracene	5575	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzo[a]pyrene	5580	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzo[b]fluoranthene	5585	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzo[ghi]perylene	5590	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzo[k]fluoranthene	5600	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzoic acid	5610	NELAP	PA	08/02/2019
EPA 625.1		10300024	Benzyl alcohol	5630	NELAP	PA	08/02/2019
EPA 625.1		10300024	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	08/02/2019
EPA 625.1		10300024	Caprolactam	7180	NELAP	PA	08/02/2019
EPA 625.1		10300024	Carbazole	5680	NELAP	PA	08/02/2019

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	08/02/2019
EPA 625.1		10300024	Di-n-butyl phthalate	5925	NELAP	PA	08/02/2019
EPA 625.1		10300024	Di-n-octyl phthalate	6200	NELAP	PA	08/02/2019
EPA 625.1		10300024	Dibenzo[a,h]anthracene	5895	NELAP	PA	08/02/2019
EPA 625.1		10300024	Dibenzofuran	5905	NELAP	PA	08/02/2019
EPA 625.1		10300024	Diethyl phthalate	6070	NELAP	PA	08/02/2019
EPA 625.1		10300024	Dimethyl phthalate	6135	NELAP	PA	08/02/2019
EPA 625.1		10300024	Fluoranthene	6265	NELAP	PA	08/02/2019
EPA 625.1		10300024	Fluorene	6270	NELAP	PA	08/02/2019
EPA 625.1		10300024	Hexachlorobenzene	6275	NELAP	PA	08/02/2019
EPA 625.1		10300024	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	08/02/2019
EPA 625.1		10300024	Hexachlorocyclopentadiene	6285	NELAP	PA	08/02/2019
EPA 625.1		10300024	Hexachloroethane	4840	NELAP	PA	08/02/2019
EPA 625.1		10300024	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	08/02/2019
EPA 625.1		10300024	Isophorone	6320	NELAP	PA	08/02/2019
EPA 625.1		10300024	N-Nitrosodi-n-propylamine	6545	NELAP	PA	08/02/2019
EPA 625.1		10300024	N-Nitrosodimethylamine	6530	NELAP	PA	08/02/2019
EPA 625.1		10300024	N-Nitrosodiphenylamine	6535	NELAP	PA	08/02/2019
EPA 625.1		10300024	Naphthalene	5005	NELAP	PA	08/02/2019
EPA 625.1		10300024	Nitrobenzene	5015	NELAP	PA	08/02/2019
EPA 625.1		10300024	Pentachlorophenol (PCP)	6605	NELAP	PA	08/02/2019
EPA 625.1		10300024	Phenanthrene	6615	NELAP	PA	08/02/2019

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1		10300024	Phenol	6625	NELAP	PA	08/02/2019
EPA 625.1		10300024	Pyrene	6665	NELAP	PA	08/02/2019
EPA 625.1		10300024	Pyridine	5095	NELAP	PA	08/02/2019
EPA 625.1		10300024	bis(2-Chloroethoxy)methane	5760	NELAP	PA	08/02/2019
EPA 625.1		10300024	bis(2-Chloroethyl) ether	5765	NELAP	PA	08/02/2019
EPA 625.1		10300024	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	08/02/2019
EPA 625.1		10300024	n-Decane	5875	NELAP	PA	02/09/2022
EPA 625.1		10300024	n-Octadecane	6580	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Acenaphthene	5500	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Acenaphthylene	5505	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Anthracene	5555	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Benzo[a]anthracene	5575	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Benzo[a]pyrene	5580	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Benzo[b]fluoranthene	5585	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Benzo[ghi]perylene	5590	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Benzo[k]fluoranthene	5600	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Dibenzo[a,h]anthracene	5895	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Fluoranthene	6265	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Fluorene	6270	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Naphthalene	5005	NELAP	PA	02/09/2022

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 625.1 SIM		10300024	Phenanthrene	6615	NELAP	PA	02/09/2022
EPA 625.1 SIM		10300024	Pyrene	6665	NELAP	PA	02/09/2022
EPA 7.3.3.2		10001204	Reactive cyanide	1923	NELAP	PA	03/29/2005
EPA 7.3.4.2		10001408	Reactive sulfide	1925	NELAP	PA	03/29/2005
EPA 7196	A	10162400	Chromium VI	1045	NELAP	PA	05/06/2009
EPA 8011		10173009	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	03/04/2015
EPA 8011		10173009	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	03/04/2015
EPA 8015	D	10305609	Diesel-range organics (DRO)	9369	NELAP	PA	02/25/2010
EPA 8015	D	10305609	Gasoline-range organics (GRO)	9408	NELAP	PA	02/25/2010
EPA 8081	B	10178811	4,4'-DDD	7355	NELAP	PA	02/25/2010
EPA 8081	B	10178811	4,4'-DDE	7360	NELAP	PA	02/25/2010
EPA 8081	B	10178811	4,4'-DDT	7365	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Aldrin (HHDN)	7025	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Chlordane (tech.)	7250	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Dieldrin	7470	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endosulfan I	7510	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endosulfan II	7515	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endosulfan sulfate	7520	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endrin	7540	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endrin aldehyde	7530	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endrin ketone	7535	NELAP	PA	02/25/2010

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8081	B	10178811	Heptachlor	7685	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Heptachlor epoxide	7690	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Methoxychlor	7810	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Toxaphene (Chlorinated camphene)	8250	NELAP	PA	02/25/2010
EPA 8081	B	10178811	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	NELAP	PA	02/25/2010
EPA 8081	B	10178811	alpha-Chlordane	7240	NELAP	PA	02/25/2010
EPA 8081	B	10178811	beta-BHC (beta-Hexachlorocyclohexane)	7115	NELAP	PA	02/25/2010
EPA 8081	B	10178811	delta-BHC (delta-Hexachlorocyclohexane)	7105	NELAP	PA	02/25/2010
EPA 8081	B	10178811	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	7120	NELAP	PA	02/25/2010
EPA 8081	B	10178811	gamma-Chlordane	7245	NELAP	PA	02/25/2010
EPA 8082	A	10179358	Aroclor-1016 (PCB-1016)	8880	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1221 (PCB-1221)	8885	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1232 (PCB-1232)	8890	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1242 (PCB-1242)	8895	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1248 (PCB-1248)	8900	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1254 (PCB-1254)	8905	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1260 (PCB-1260)	8910	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1262 (PCB-1262)	8912	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1268 (PCB-1268)	8913	NELAP	PA	03/29/2005
EPA 8260	B	10184802	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1,1-Trichloroethane	5160	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	02/25/2010

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1,2-Trichloroethane	5165	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1-Dichloroethane	4630	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1-Dichloropropene	4670	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,3-Trichlorobenzene	5150	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,4-Trimethylbenzene	5210	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dichloroethane	4635	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dichloropropane	4655	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,3,5-Trimethylbenzene	5215	NELAP	PA	10/01/2014
EPA 8260	B	10184802	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	04/29/2016
EPA 8260	B	10184802	1,3-Dichloropropane	4660	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2,2-Dichloropropane	4665	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	02/25/2010

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	2-Chloroethyl vinyl ether	4500	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Chlorotoluene	4535	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Hexanone	4860	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Methylnaphthalene	6385	NELAP	PA	05/30/2013
EPA 8260	B	10184802	2-Nitropropane	5020	NELAP	PA	02/25/2010
EPA 8260	B	10184802	4-Chlorotoluene	4540	NELAP	PA	02/25/2010
EPA 8260	B	10184802	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Acetone	4315	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Acetonitrile	4320	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Acrolein (Propenal)	4325	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Acrylonitrile	4340	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Benzene	4375	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromobenzene	4385	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromochloromethane	4390	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromodichloromethane	4395	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromoform	4400	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Carbon disulfide	4450	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Carbon tetrachloride	4455	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Chlorobenzene	4475	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Chloroethane	4485	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Chloroform	4505	NELAP	PA	02/25/2010

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Cyclohexane	4555	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Cyclohexanone	4560	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Dibromochloromethane	4575	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Dibromomethane	4595	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Diethyl ether (Ethyl ether)	4725	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Diisopropyl ether (DIPE)	9375	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Ethanol	4750	NELAP	PA	06/14/2011
EPA 8260	B	10184802	Ethyl acetate	4755	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Ethyl methacrylate	4810	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Ethyl tert-butyl ether (ETBE)	4770	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Ethylbenzene	4765	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Iodomethane (Methyl iodide)	4870	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Isopropylbenzene (Cumene)	4900	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methacrylonitrile	4925	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methyl acetate	4940	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methyl bromide (Bromomethane)	4950	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methyl chloride (Chloromethane)	4960	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	02/25/2010

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	Methylacrylate	4945	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methylcyclohexane	4965	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methylene chloride (Dichloromethane)	4975	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methylmethacrylate	4990	NELAP	PA	08/12/2015
EPA 8260	B	10184802	Naphthalene	5005	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Styrene	5100	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Tetrahydrofuran (THF)	5120	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Toluene	5140	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Vinyl acetate	5225	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Vinyl chloride (Chloroethene)	5235	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Xylenes, total	5260	NELAP	PA	02/25/2010
EPA 8260	B	10184802	cis-1,2-Dichloroethene	4645	NELAP	PA	02/25/2010
EPA 8260	B	10184802	cis-1,3-Dichloropropene	4680	NELAP	PA	02/25/2010
EPA 8260	B	10184802	m+p-Xylene	5240	NELAP	PA	02/25/2010
EPA 8260	B	10184802	n-Butylbenzene	4435	NELAP	PA	02/25/2010
EPA 8260	B	10184802	n-Hexane	4855	NELAP	PA	02/25/2010
EPA 8260	B	10184802	n-Propylbenzene	5090	NELAP	PA	02/25/2010
EPA 8260	B	10184802	o-Xylene	5250	NELAP	PA	02/25/2010

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	02/25/2010
EPA 8260	B	10184802	sec-Butylbenzene	4440	NELAP	PA	02/25/2010
EPA 8260	B	10184802	tert-Amyl ethyl ether (TAEE)	4369	NELAP	PA	02/25/2010
EPA 8260	B	10184802	tert-Amyl methyl ether (TAME)	4370	NELAP	PA	08/11/2011
EPA 8260	B	10184802	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	02/25/2010
EPA 8260	B	10184802	tert-Butylbenzene	4445	NELAP	PA	02/25/2010
EPA 8260	B	10184802	trans-1,2-Dichloroethene	4700	NELAP	PA	02/25/2010
EPA 8260	B	10184802	trans-1,3-Dichloropropene	4685	NELAP	PA	02/25/2010
EPA 8260	B	10184802	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,1-Trichloroethane	5160	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,2-Trichloroethane	5165	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1-Dichloroethane	4630	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1-Dichloropropene	4670	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,3-Trichlorobenzene	5150	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,4-Trimethylbenzene	5210	NELAP	PA	02/25/2010

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dichloroethane	4635	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dichloropropane	4655	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,3,5-Trimethylbenzene	5215	NELAP	PA	10/01/2014
EPA 8260	C	10307003	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	04/29/2016
EPA 8260	C	10307003	1,3-Dichloropropane	4660	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2,2-Dichloropropane	4665	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Chloroethyl vinyl ether	4500	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Chlorotoluene	4535	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Hexanone	4860	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Methylnaphthalene	6385	NELAP	PA	05/30/2013
EPA 8260	C	10307003	2-Nitropropane	5020	NELAP	PA	02/25/2010
EPA 8260	C	10307003	4-Chlorotoluene	4540	NELAP	PA	02/25/2010
EPA 8260	C	10307003	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Acetone	4315	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Acetonitrile	4320	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Acrolein (Propenal)	4325	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Acrylonitrile	4340	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Benzene	4375	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromobenzene	4385	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromochloromethane	4390	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromodichloromethane	4395	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromoform	4400	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Carbon disulfide	4450	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Carbon tetrachloride	4455	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chlorobenzene	4475	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chloroethane	4485	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chloroform	4505	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Cyclohexane	4555	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Cyclohexanone	4560	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Dibromochloromethane	4575	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Dibromomethane	4595	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Diethyl ether (Ethyl ether)	4725	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Diisopropyl ether (DIPE)	9375	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Ethanol	4750	NELAP	PA	06/14/2011

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Ethyl acetate	4755	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Ethyl methacrylate	4810	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Ethyl tert-butyl ether (ETBE)	4770	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Ethylbenzene	4765	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Iodomethane (Methyl iodide)	4870	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Isopropylbenzene (Cumene)	4900	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methacrylonitrile	4925	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methyl acetate	4940	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methyl bromide (Bromomethane)	4950	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methyl chloride (Chloromethane)	4960	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methylacrylate	4945	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methylcyclohexane	4965	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methylene chloride (Dichloromethane)	4975	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methylmethacrylate	4990	NELAP	PA	08/12/2015
EPA 8260	C	10307003	Naphthalene	5005	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Styrene	5100	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Tetrahydrofuran (THF)	5120	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Toluene	5140	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Vinyl acetate	5225	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Vinyl chloride (Chloroethene)	5235	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Xylenes, total	5260	NELAP	PA	02/25/2010
EPA 8260	C	10307003	cis-1,2-Dichloroethene	4645	NELAP	PA	02/25/2010
EPA 8260	C	10307003	cis-1,3-Dichloropropene	4680	NELAP	PA	02/25/2010
EPA 8260	C	10307003	m+p-Xylene	5240	NELAP	PA	02/25/2010
EPA 8260	C	10307003	n-Butylbenzene	4435	NELAP	PA	02/25/2010
EPA 8260	C	10307003	n-Hexane	4855	NELAP	PA	02/25/2010
EPA 8260	C	10307003	n-Propylbenzene	5090	NELAP	PA	02/25/2010
EPA 8260	C	10307003	o-Xylene	5250	NELAP	PA	02/25/2010
EPA 8260	C	10307003	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	02/25/2010
EPA 8260	C	10307003	sec-Butylbenzene	4440	NELAP	PA	02/25/2010
EPA 8260	C	10307003	tert-Amyl ethyl ether (TAEE)	4369	NELAP	PA	02/25/2010
EPA 8260	C	10307003	tert-Amyl methyl ether (TAME)	4370	NELAP	PA	08/11/2011
EPA 8260	C	10307003	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	02/25/2010
EPA 8260	C	10307003	tert-Butylbenzene	4445	NELAP	PA	02/25/2010
EPA 8260	C	10307003	trans-1,2-Dichloroethene	4700	NELAP	PA	02/25/2010
EPA 8260	C	10307003	trans-1,3-Dichloropropene	4685	NELAP	PA	02/25/2010
EPA 8260	C	10307003	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	02/25/2010

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Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1,1-Trichloroethane	5160	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	04/11/2023
EPA 8260	D	10307127	1,1,2-Trichloroethane	5165	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1,2-Trichlorofluoroethane	5167	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1-Dichloroethane	4630	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1-Dichloropropene	4670	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,3-Trichlorobenzene	5150	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,4-Trimethylbenzene	5210	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dichloroethane	4635	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dichloropropane	4655	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,3,5-Trichlorobenzene	6800	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,3,5-Trimethylbenzene	5215	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	02/03/2023

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Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	1,3-Dichloropropane	4660	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2,2-Dichloropropane	4665	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Chloroethyl vinyl ether	4500	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Chlorotoluene	4535	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Hexanone	4860	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Methylnaphthalene	6385	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Nitropropane	5020	NELAP	PA	02/03/2023
EPA 8260	D	10307127	4-Chlorotoluene	4540	NELAP	PA	02/03/2023
EPA 8260	D	10307127	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Acetone	4315	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Acetonitrile	4320	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Acrolein (Propenal)	4325	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Acrylonitrile	4340	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Benzene	4375	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromobenzene	4385	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromochloromethane	4390	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromodichloromethane	4395	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromoform	4400	NELAP	PA	02/03/2023

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Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Carbon disulfide	4450	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Carbon tetrachloride	4455	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Chlorobenzene	4475	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Chloroethane	4485	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Chloroform	4505	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Cyclohexane	4555	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Cyclohexanone	4560	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Dibromochloromethane	4575	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Dibromomethane	4595	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Diethyl ether (Ethyl ether)	4725	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Diisopropyl ether (DIPE)	9375	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethanol	4750	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethyl acetate	4755	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethyl methacrylate	4810	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethyl tert-butyl ether (ETBE)	4770	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethylbenzene	4765	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Iodomethane (Methyl iodide)	4870	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Isopropylbenzene (Cumene)	4900	NELAP	PA	02/21/2023

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Methacrylonitrile	4925	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methyl acetate	4940	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methyl bromide (Bromomethane)	4950	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methyl chloride (Chloromethane)	4960	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methylcyclohexane	4965	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methylene chloride (Dichloromethane)	4975	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methylmethacrylate	4990	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Naphthalene	5005	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Styrene	5100	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Tetrahydrofuran (THF)	5120	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Toluene	5140	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Vinyl acetate	5225	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Vinyl chloride (Chloroethene)	5235	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Xylenes, total	5260	NELAP	PA	02/03/2023
EPA 8260	D	10307127	cis-1,2-Dichloroethene	4645	NELAP	PA	02/03/2023
EPA 8260	D	10307127	cis-1,3-Dichloropropene	4680	NELAP	PA	02/03/2023
EPA 8260	D	10307127	m+p-Xylene	5240	NELAP	PA	02/03/2023

Annmarie Beach

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	n-Butylbenzene	4435	NELAP	PA	02/03/2023
EPA 8260	D	10307127	n-Hexane	4855	NELAP	PA	02/03/2023
EPA 8260	D	10307127	n-Propylbenzene	5090	NELAP	PA	02/03/2023
EPA 8260	D	10307127	o-Xylene	5250	NELAP	PA	02/03/2023
EPA 8260	D	10307127	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	02/03/2023
EPA 8260	D	10307127	sec-Butylbenzene	4440	NELAP	PA	02/03/2023
EPA 8260	D	10307127	tert-Amyl methyl ether (TAME)	4370	NELAP	PA	02/03/2023
EPA 8260	D	10307127	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	02/03/2023
EPA 8260	D	10307127	tert-Butylbenzene	4445	NELAP	PA	02/03/2023
EPA 8260	D	10307127	trans-1,2-Dichloroethene	4700	NELAP	PA	02/03/2023
EPA 8260	D	10307127	trans-1,3-Dichloropropene	4685	NELAP	PA	02/03/2023
EPA 8260	D	10307127	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	02/03/2023
EPA 8270	D	10186035	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	03/30/2015
EPA 8270	D	10186002	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	10/02/2012
EPA 8270	D	10186035	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	10/02/2012
EPA 8270	D	10186035	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,2-Diphenylhydrazine	6220	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/25/2010
EPA 8270	D	10186002	1-Methylnaphthalene	6380	NELAP	PA	09/18/2013

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	1-Methylnaphthalene	6380	NELAP	PA	09/18/2013
EPA 8270	D	10186035	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	02/25/2010
EPA 8270	D	10186002	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	10/02/2012
EPA 8270	D	10186035	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	10/02/2012
EPA 8270	D	10186035	2,4,5-Trichlorophenol	6835	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4,6-Trichlorophenol	6840	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dichlorophenol	6000	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dimethylphenol	6130	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dinitrophenol	6175	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Chloronaphthalene	5795	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Chlorophenol	5800	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Methylnaphthalene	6385	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Methylphenol (o-Cresol)	6400	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Nitroaniline	6460	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Nitrophenol	6490	NELAP	PA	02/25/2010
EPA 8270	D	10186035	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	02/25/2010
EPA 8270	D	10186035	3,3'-Dichlorobenzidine	5945	NELAP	PA	02/25/2010
EPA 8270	D	10186035	3-Nitroaniline	6465	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	4-Bromophenyl phenyl ether	5660	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Chloro-3-methylphenol	5700	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Chloroaniline	5745	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Chlorophenyl phenyl ether	5825	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Nitroaniline	6470	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Nitrophenol	6500	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Acenaphthene	5500	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Acenaphthylene	5505	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Acetophenone	5510	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Aniline	5545	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Anthracene	5555	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Atrazine	7065	NELAP	PA	03/30/2015
EPA 8270	D	10186035	Azobenzene	5562	NELAP	PA	08/02/2019
EPA 8270	D	10186035	Benzaldehyde	5570	NELAP	PA	03/30/2015
EPA 8270	D	10186035	Benzidine	5595	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[a]anthracene	5575	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[a]pyrene	5580	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[b]fluoranthene	5585	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[ghi]perylene	5590	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[k]fluoranthene	5600	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzoic acid	5610	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzyl alcohol	5630	NELAP	PA	02/25/2010

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Caprolactam	7180	NELAP	PA	03/30/2015
EPA 8270	D	10186035	Carbazole	5680	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Di-n-butyl phthalate	5925	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Di-n-octyl phthalate	6200	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Dibenzo[a,h]anthracene	5895	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Dibenzofuran	5905	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Diethyl phthalate	6070	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Dimethyl phthalate	6135	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Fluoranthene	6265	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Fluorene	6270	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachlorobenzene	6275	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachlorocyclopentadiene	6285	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachloroethane	4840	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Isophorone	6320	NELAP	PA	02/25/2010
EPA 8270	D	10186035	N-Nitrosodi-n-propylamine	6545	NELAP	PA	02/25/2010
EPA 8270	D	10186035	N-Nitrosodimethylamine	6530	NELAP	PA	02/25/2010
EPA 8270	D	10186035	N-Nitrosodiphenylamine	6535	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Naphthalene	5005	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Nitrobenzene	5015	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Pentachlorophenol (PCP)	6605	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Phenanthrene	6615	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Phenol	6625	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Pyrene	6665	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Pyridine	5095	NELAP	PA	02/25/2010
EPA 8270	D	10186035	bis(2-Chloroethoxy)methane	5760	NELAP	PA	02/25/2010
EPA 8270	D	10186035	bis(2-Chloroethyl) ether	5765	NELAP	PA	02/25/2010
EPA 8270	D	10186035	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	02/25/2010
EPA 8270	D	10186035	n-Decane	5875	NELAP	PA	02/09/2022
EPA 8270	D	10186035	n-Octadecane	6580	NELAP	PA	02/09/2022
EPA 8270	E	10242543	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2,4-Trichlorobenzene	5155	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2-Diphenylhydrazine	6220	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1-Methylnaphthalene	6380	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	2,4,5-Trichlorophenol	6835	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4,6-Trichlorophenol	6840	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dichlorophenol	6000	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dimethylphenol	6130	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dinitrophenol	6175	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Chloronaphthalene	5795	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Chlorophenol	5800	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Methylnaphthalene	6385	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Methylphenol (o-Cresol)	6400	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Nitroaniline	6460	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Nitrophenol	6490	NELAP	PA	12/22/2020
EPA 8270	E	10242543	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	12/22/2020
EPA 8270	E	10242543	3,3'-Dichlorobenzidine	5945	NELAP	PA	12/22/2020
EPA 8270	E	10242543	3-Nitroaniline	6465	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Bromophenyl phenyl ether	5660	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Chloro-3-methylphenol	5700	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Chloroaniline	5745	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Chlorophenyl phenyl ether	5825	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Nitroaniline	6470	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	4-Nitrophenol	6500	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Acenaphthene	5500	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Acenaphthylene	5505	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Acetophenone	5510	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Aniline	5545	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Anthracene	5555	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Atrazine	7065	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Azobenzene	5562	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzaldehyde	5570	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzidine	5595	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[a]anthracene	5575	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[a]pyrene	5580	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[b]fluoranthene	5585	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[ghi]perylene	5590	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[k]fluoranthene	5600	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzoic acid	5610	NELAP	PA	04/01/2021
EPA 8270	E	10242543	Benzyl alcohol	5630	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	04/01/2021
EPA 8270	E	10242543	Caprolactam	7180	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Carbazole	5680	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Di-n-butyl phthalate	5925	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Di-n-octyl phthalate	6200	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Dibenzo[a,h]anthracene	5895	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Dibenzofuran	5905	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Diethyl phthalate	6070	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Dimethyl phthalate	6135	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Fluoranthene	6265	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Fluorene	6270	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachlorobenzene	6275	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachlorocyclopentadiene	6285	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachloroethane	4840	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Isophorone	6320	NELAP	PA	12/22/2020
EPA 8270	E	10242543	N-Nitrosodi-n-propylamine	6545	NELAP	PA	12/22/2020
EPA 8270	E	10242543	N-Nitrosodimethylamine	6530	NELAP	PA	12/22/2020
EPA 8270	E	10242543	N-Nitrosodiphenylamine	6535	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Naphthalene	5005	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Nitrobenzene	5015	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Pentachlorophenol (PCP)	6605	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Phenanthrene	6615	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Phenol	6625	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Pyrene	6665	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Pyridine	5095	NELAP	PA	12/22/2020
EPA 8270	E	10242543	bis(2-Chloroethoxy)methane	5760	NELAP	PA	12/22/2020
EPA 8270	E	10242543	bis(2-Chloroethyl) ether	5765	NELAP	PA	12/22/2020
EPA 8270	E	10242543	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	12/22/2020
EPA 8270	E	10242543	n-Decane	5875	NELAP	PA	02/09/2022
EPA 8270	E	10242543	n-Octadecane	6580	NELAP	PA	02/09/2022
EPA 8270		10185203	Azobenzene	5562	NELAP	PA	08/02/2019
EPA 8270 SIM	D	10242509	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Acenaphthene	5500	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Acenaphthylene	5505	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Anthracene	5555	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[a]anthracene	5575	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[a]pyrene	5580	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[b]fluoranthene	5585	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[ghi]perylene	5590	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[k]fluoranthene	5600	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Dibenzo[a,h]anthracene	5895	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Fluoranthene	6265	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Fluorene	6270	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Naphthalene	5005	NELAP	PA	04/24/2019

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270 SIM	D	10242509	Phenanthrene	6615	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Pyrene	6665	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Quinoline	6670	NELAP	PA	04/24/2019
EPA 8270 SIM	E	10242565	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	1-Methylnaphthalene	6380	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	2-Methylnaphthalene	6385	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Acenaphthene	5500	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Acenaphthylene	5505	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Anthracene	5555	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[a]anthracene	5575	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[a]pyrene	5580	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[b]fluoranthene	5585	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[ghi]perylene	5590	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[k]fluoranthene	5600	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Dibenzo[a,h]anthracene	5895	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Fluoranthene	6265	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Fluorene	6270	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Naphthalene	5005	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Phenanthrene	6615	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Pyrene	6665	NELAP	PA	12/22/2020

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 900.0		10242601	Gross alpha	2830	NELAP	PA	05/27/2008
EPA 900.0		10242601	Gross beta	2840	NELAP	PA	05/27/2008
EPA 901.1		10308608	Gamma emitters	2826	NELAP	PA	08/12/2008
EPA 9010	C	10193109	Amenable cyanide	1510	NELAP	PA	08/31/2006
EPA 9010	C	10193109	Total cyanide	1645	NELAP	PA	08/31/2006
EPA 9012	B	10243228	Total cyanide	1645	NELAP	PA	03/20/2024
EPA 9014		10193803	Total cyanide	1645	NELAP	PA	03/25/2014
EPA 903.0		10244005	Total alpha radium	2750	NELAP	PA	03/31/2017
EPA 903.1		10309601	Radium-226	2965	NELAP	PA	05/27/2008
EPA 9038		10196608	Sulfate	2000	NELAP	PA	05/06/2009
EPA 904.0		10309805	Radium-228	2970	NELAP	PA	08/12/2008
EPA 9040	B	10197203	pH	1900	NELAP	PA	03/29/2005
EPA 9040	C	10244403	pH	1900	NELAP	PA	02/22/2013
EPA 905.0		10310006	Strontium-90	3005	NELAP	PA	08/12/2008
EPA 905.0		10310006	Total Radiostrontium	3010	NELAP	PA	08/03/2022
EPA 9050	A	10198808	Conductivity	1610	NELAP	PA	04/21/2014
EPA 906.0		10310200	Tritium	3030	NELAP	PA	08/12/2008
EPA 9060	A	10244823	Total organic carbon (TOC)	2040	NELAP	PA	09/18/2013
EPA 9065		10200405	Total phenolics	1905	NELAP	PA	05/06/2009
EPA 9095	B	10245600	Paint filter liquids test	1434	NELAP	PA	08/25/2021
EPA 9251		10207406	Chloride	1575	NELAP	PA	05/06/2009
EPA 9310	3rd ed.	10310802	Gross alpha	2830	NELAP	PA	05/27/2008

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Greensburg, PA 15601
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DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 9310	3rd ed.	10310802	Gross beta	2840	NELAP	PA	05/27/2008
EPA 9315	3rd ed.	10311009	Radium-226	2965	NELAP	PA	05/30/2013
EPA 9315	3rd ed.	10311009	Total radium	2975	NELAP	PA	05/27/2008
EPA 9320	3rd ed.	10208603	Radium-228	2970	NELAP	PA	05/27/2008
HACH 10360	1.2	60027852	Oxygen (dissolved)	1880	NELAP	PA	08/25/2021
HASL 300 Th-01-RC	28th ed.	90010803	Thorium-228	1171	NELAP	PA	08/16/2023
HASL 300 Th-01-RC	28th ed.	90010803	Thorium-230	3027	NELAP	PA	08/16/2023
HASL 300 Th-01-RC	28th ed.	90010803	Thorium-232	3033	NELAP	PA	08/16/2023
HASL 300 U-02-RC	28th ed.	90011408	Uranium-234	3036	NELAP	PA	12/22/2020
HASL 300 U-02-RC	28th ed.	90011408	Uranium-235	3037	NELAP	PA	12/22/2020
HASL 300 U-02-RC	28th ed.	90011408	Uranium-238	3038	NELAP	PA	12/22/2020
SM 2120B - 2011	Online ed.	20039310	Color	1605	NELAP	PA	04/10/2007
SM 2310B - 2011	Online ed.	20044615	Acidity as CaCO3	1500	NELAP	PA	03/20/2024
SM 2320B - 2011	Online ed.	20045618	Alkalinity as CaCO3	1505	NELAP	PA	01/04/2007
SM 2540B - 2015	Online ed.	20049438	Residue, total	1950	NELAP	PA	11/21/2022
SM 2540C - 2015	23rd ed.	20050457	Residue, filterable (TDS)	1955	NELAP	PA	11/21/2022
SM 2540D - 2015	Online ed.	20051223	Residue, nonfilterable (TSS)	1960	NELAP	PA	11/21/2022
SM 2540E - 2011	22nd ed.	20051665	Volatile suspended solids	2070	NELAP	PA	08/02/2019
SM 2540F - 2015	Online ed.	20052226	Residue, settleable	1965	NELAP	PA	11/21/2022
SM 3500-Cr B - 2011	Online ed.	20066266	Chromium VI	1045	NELAP	PA	09/18/2013
SM 3500-Fe B - 2011	22nd ed.	20068819	Ferrous iron	1073	NELAP	PA	01/09/2012
SM 4500-CN- C - 2016	23rd ed.	20095458	Cyanide distillation	1412	NELAP	PA	11/21/2022

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Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
SM 4500-CN- E - 2016	Online ed.	20096439	Total cyanide	1645	NELAP	PA	11/21/2022
SM 4500-CN- G - 2016	Online ed.	20097238	Amenable cyanide	1510	NELAP	PA	11/21/2022
SM 4500-CN- M - 2011	22nd ed.	20099245	Thiocyanate	2032	NELAP	PA	05/06/2009
SM 4500-Cl- E - 2011	Online ed.	20086811	Chloride	1575	NELAP	PA	05/06/2009
SM 4500-F- C - 2011	Online ed.	20102414	Fluoride	1730	NELAP	PA	05/06/2009
SM 4500-H + B - 2011	Online ed.	20105220	pH	1900	NELAP	PA	04/10/2007
SM 4500-NO2- B - 2011	Online ed.	20113115	Nitrite as N	1840	NELAP	PA	06/30/2011
SM 4500-NO3- F - 2016	23rd ed.	20116421	Nitrate as N	1810	NELAP	PA	11/21/2022
SM 4500-NO3- F - 2016	23rd ed.	20116421	Total nitrate-nitrite	1820	NELAP	PA	11/21/2022
SM 4500-P B - 2011	22nd ed.	20123211	Preliminary treatment of phosphate samples	1479	NELAP	PA	05/06/2009
SM 4500-P E - 2011	Online ed.	20124225	Orthophosphate as P	1870	NELAP	PA	05/06/2009
SM 4500-P E - 2011	Online ed.	20124225	Phosphorus, total	1910	NELAP	PA	05/06/2009
SM 4500-S2- F - 2011	Online ed.	20126663	Sulfide	2005	NELAP	PA	04/10/2007
SM 4500-SO3- B - 2011	22nd ed.	20130410	Sulfite, SO3	2015	NELAP	PA	04/10/2007
SM 5210B - 2016	Online ed.	20135039	Biochemical oxygen demand (BOD)	1530	NELAP	PA	11/21/2022
SM 5210B - 2016	Online ed.	20135039	Carbonaceous BOD (CBOD)	1555	NELAP	PA	11/21/2022
SM 5310C - 2014	Online ed.	20138834	Total organic carbon (TOC)	2040	NELAP	PA	11/21/2022
SM 5540C - 2011	Online ed.	20145066	Surfactants as MBAS	2025	NELAP	PA	05/06/2009
SM 7110C - 2000	21st ed.	20158809	Gross alpha	2830	NELAP	PA	05/27/2008
SM 7500-Rn B - 1996	20th ed.	20173700	Radon-222	2980	NELAP	PA	05/23/2024
SOP (00282) ENV-SOP-GBUR-0146	3		Fluoroborate	1733	NELAP	PA	02/09/2024

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Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
ASTM D3987-12		30030718	Shake extraction of solid waste with water	1386	NELAP	PA	12/22/2020
ASTM D5811-08		30025071	Strontium-89	2995	NELAP	PA	08/03/2022
ASTM D5811-08		30025071	Strontium-90	3005	NELAP	PA	08/03/2022
ASTM D5811-08		30025071	Total Radiostrontium	3010	NELAP	PA	08/03/2022
ASTM D93-13		30005755	Flashpoint	6117	NELAP	PA	04/21/2014
DOE 4.5.2.3	27th ed.	90000207	Gamma emitters	2826	NELAP	PA	09/18/2013
DOE 4.5.5	27th ed	90000241	Thorium-228	1171	NELAP	PA	07/10/2023
DOE 4.5.5	27th ed	90000241	Thorium-230	3027	NELAP	PA	07/10/2023
DOE 4.5.5	27th ed	90000241	Thorium-232	3033	NELAP	PA	07/10/2023
EPA 1010	B	10234830	Flashpoint	6117	NELAP	PA	08/25/2021
EPA 1010	B	10234830	Ignitability	1780	NELAP	PA	09/22/2021
EPA 1311		10118806	Toxicity characteristic leaching procedure (TCLP)	1466	NELAP	PA	03/29/2005
EPA 1312		10119003	Synthetic precipitation leaching procedure (SPLP)	1460	NELAP	PA	03/29/2005
EPA 160.4		10010409	Residue, volatile	1970	NELAP	PA	05/30/2013
EPA 1664	A	10127807	Non-polar material	1853	NELAP	PA	03/31/2017
EPA 3060	A	10136604	Alkaline digestion of Cr(VI)	1402	NELAP	PA	02/22/2013
EPA 350.1	2.0	10063602	Ammonia as N	1515	NELAP	PA	08/01/2013

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DEP Laboratory ID: 65-00282
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Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 351.2	2.0	10065404	Kjeldahl nitrogen, total (TKN)	1795	NELAP	PA	09/18/2013
EPA 3546		10141205	Microwave extraction	1428	NELAP	PA	04/20/2009
EPA 3580	A	10143007	Waste dilution	1470	NELAP	PA	03/29/2005
EPA 3660	B	10148400	Sulfur cleanup	1456	NELAP	PA	03/29/2005
EPA 3665	A	10148808	Sulfuric acid/permanganate clean-up	1458	NELAP	PA	03/29/2005
EPA 5035	A	10284807	Closed-system purge-and-trap (bisulfate option)	1390	NELAP	PA	10/29/2009
EPA 5035	A	10284807	Closed-system purge-and-trap (methanol option)	1392	NELAP	PA	10/29/2009
EPA 5035	A	10284807	Closed-system purge-and-trap (unpreserved)	1393	NELAP	PA	10/29/2009
EPA 7.3.3.2		10001204	Reactive cyanide	1923	NELAP	PA	03/29/2005
EPA 7.3.4.2		10001408	Reactive sulfide	1925	NELAP	PA	03/29/2005
EPA 7196	A	10162400	Chromium VI	1045	NELAP	PA	05/06/2009
EPA 8015	D	10305609	Diesel-range organics (DRO)	9369	NELAP	PA	02/25/2010
EPA 8015	D	10305609	Gasoline-range organics (GRO)	9408	NELAP	PA	02/25/2010
EPA 8081	B	10178811	4,4'-DDD	7355	NELAP	PA	02/25/2010
EPA 8081	B	10178811	4,4'-DDE	7360	NELAP	PA	02/25/2010
EPA 8081	B	10178811	4,4'-DDT	7365	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Aldrin (HHDN)	7025	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Chlordane (tech.)	7250	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Dieldrin	7470	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endosulfan I	7510	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endosulfan II	7515	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endosulfan sulfate	7520	NELAP	PA	02/25/2010

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PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8081	B	10178811	Endrin	7540	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endrin aldehyde	7530	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Endrin ketone	7535	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Heptachlor	7685	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Heptachlor epoxide	7690	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Methoxychlor	7810	NELAP	PA	02/25/2010
EPA 8081	B	10178811	Toxaphene (Chlorinated camphene)	8250	NELAP	PA	02/25/2010
EPA 8081	B	10178811	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	NELAP	PA	02/25/2010
EPA 8081	B	10178811	alpha-Chlordane	7240	NELAP	PA	02/25/2010
EPA 8081	B	10178811	beta-BHC (beta-Hexachlorocyclohexane)	7115	NELAP	PA	02/25/2010
EPA 8081	B	10178811	delta-BHC (delta-Hexachlorocyclohexane)	7105	NELAP	PA	02/25/2010
EPA 8081	B	10178811	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	7120	NELAP	PA	02/25/2010
EPA 8081	B	10178811	gamma-Chlordane	7245	NELAP	PA	02/25/2010
EPA 8082	A	10179358	Aroclor-1016 (PCB-1016)	8880	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1221 (PCB-1221)	8885	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1232 (PCB-1232)	8890	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1242 (PCB-1242)	8895	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1248 (PCB-1248)	8900	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1254 (PCB-1254)	8905	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1260 (PCB-1260)	8910	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1262 (PCB-1262)	8912	NELAP	PA	03/29/2005
EPA 8082	A	10179358	Aroclor-1268 (PCB-1268)	8913	NELAP	PA	03/29/2005

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1,1-Trichloroethane	5160	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1,2-Trichloroethane	5165	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1-Dichloroethane	4630	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,1-Dichloropropene	4670	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,3-Trichlorobenzene	5150	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2,4-Trimethylbenzene	5210	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dichloroethane	4635	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,2-Dichloropropane	4655	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,3,5-Trimethylbenzene	5215	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	02/25/2010
EPA 8260	B	10184802	1,3-Dichloropropane	4660	NELAP	PA	05/30/2013
EPA 8260	B	10184802	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/25/2010

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2,2-Dichloropropane	4665	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Chloroethyl vinyl ether	4500	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Chlorotoluene	4535	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Hexanone	4860	NELAP	PA	02/25/2010
EPA 8260	B	10184802	2-Methylnaphthalene	6385	NELAP	PA	05/30/2013
EPA 8260	B	10184802	2-Nitropropane	5020	NELAP	PA	05/30/2013
EPA 8260	B	10184802	4-Chlorotoluene	4540	NELAP	PA	02/25/2010
EPA 8260	B	10184802	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Acetone	4315	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Acetonitrile	4320	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Acrolein (Propenal)	4325	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Acrylonitrile	4340	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Benzene	4375	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromobenzene	4385	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromochloromethane	4390	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromodichloromethane	4395	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Bromoform	4400	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Carbon disulfide	4450	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Carbon tetrachloride	4455	NELAP	PA	02/25/2010

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Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	Chlorobenzene	4475	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Chloroethane	4485	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Chloroform	4505	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Cyclohexane	4555	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Cyclohexanone	4560	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Dibromochloromethane	4575	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Dibromomethane	4595	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Diethyl ether (Ethyl ether)	4725	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Diisopropyl ether (DIPE)	9375	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Ethanol	4750	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Ethyl acetate	4755	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Ethyl methacrylate	4810	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Ethyl tert-butyl ether (ETBE)	4770	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Ethylbenzene	4765	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Iodomethane (Methyl iodide)	4870	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Isopropylbenzene (Cumene)	4900	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methacrylonitrile	4925	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Methyl acetate	4940	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	Methyl bromide (Bromomethane)	4950	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methyl chloride (Chloromethane)	4960	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methylcyclohexane	4965	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methylene chloride (Dichloromethane)	4975	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Methylmethacrylate	4990	NELAP	PA	08/12/2015
EPA 8260	B	10184802	Naphthalene	5005	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Styrene	5100	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Tetrahydrofuran (THF)	5120	NELAP	PA	05/30/2013
EPA 8260	B	10184802	Toluene	5140	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Vinyl acetate	5225	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Vinyl chloride (Chloroethene)	5235	NELAP	PA	02/25/2010
EPA 8260	B	10184802	Xylenes, total	5260	NELAP	PA	02/25/2010
EPA 8260	B	10184802	cis-1,2-Dichloroethene	4645	NELAP	PA	02/25/2010
EPA 8260	B	10184802	cis-1,3-Dichloropropene	4680	NELAP	PA	02/25/2010
EPA 8260	B	10184802	m+p-Xylene	5240	NELAP	PA	02/25/2010
EPA 8260	B	10184802	n-Butylbenzene	4435	NELAP	PA	02/25/2010
EPA 8260	B	10184802	n-Hexane	4855	NELAP	PA	02/25/2010

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	B	10184802	n-Propylbenzene	5090	NELAP	PA	02/25/2010
EPA 8260	B	10184802	o-Xylene	5250	NELAP	PA	02/25/2010
EPA 8260	B	10184802	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	02/25/2010
EPA 8260	B	10184802	sec-Butylbenzene	4440	NELAP	PA	02/25/2010
EPA 8260	B	10184802	tert-Amyl methyl ether (TAME)	4370	NELAP	PA	02/25/2010
EPA 8260	B	10184802	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	02/25/2010
EPA 8260	B	10184802	tert-Butylbenzene	4445	NELAP	PA	02/25/2010
EPA 8260	B	10184802	trans-1,2-Dichloroethene	4700	NELAP	PA	02/25/2010
EPA 8260	B	10184802	trans-1,3-Dichloropropene	4685	NELAP	PA	02/25/2010
EPA 8260	B	10184802	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	05/30/2013
EPA 8260	C	10307003	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,1-Trichloroethane	5160	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1,2-Trichloroethane	5165	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1-Dichloroethane	4630	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,1-Dichloropropene	4670	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,3-Trichlorobenzene	5150	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2,4-Trimethylbenzene	5210	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dichloroethane	4635	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,2-Dichloropropane	4655	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,3,5-Trimethylbenzene	5215	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,3-Dichloropropane	4660	NELAP	PA	05/30/2013
EPA 8260	C	10307003	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/25/2010
EPA 8260	C	10307003	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2,2-Dichloropropane	4665	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Chloroethyl vinyl ether	4500	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Chlorotoluene	4535	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Hexanone	4860	NELAP	PA	02/25/2010
EPA 8260	C	10307003	2-Methylnaphthalene	6385	NELAP	PA	05/30/2013
EPA 8260	C	10307003	2-Nitropropane	5020	NELAP	PA	05/30/2013
EPA 8260	C	10307003	4-Chlorotoluene	4540	NELAP	PA	02/25/2010
EPA 8260	C	10307003	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Acetone	4315	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Acetonitrile	4320	NELAP	PA	05/30/2013

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Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Acrolein (Propenal)	4325	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Acrylonitrile	4340	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Benzene	4375	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromobenzene	4385	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromochloromethane	4390	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromodichloromethane	4395	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Bromoform	4400	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Carbon disulfide	4450	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Carbon tetrachloride	4455	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chlorobenzene	4475	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chloroethane	4485	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chloroform	4505	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Cyclohexane	4555	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Cyclohexanone	4560	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Dibromochloromethane	4575	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Dibromomethane	4595	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Diethyl ether (Ethyl ether)	4725	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Diisopropyl ether (DIPE)	9375	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Ethanol	4750	NELAP	PA	05/30/2013

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Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Ethyl acetate	4755	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Ethyl methacrylate	4810	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Ethyl tert-butyl ether (ETBE)	4770	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Ethylbenzene	4765	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Iodomethane (Methyl iodide)	4870	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Isopropylbenzene (Cumene)	4900	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methacrylonitrile	4925	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Methyl acetate	4940	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methyl bromide (Bromomethane)	4950	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methyl chloride (Chloromethane)	4960	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methylcyclohexane	4965	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methylene chloride (Dichloromethane)	4975	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Methylmethacrylate	4990	NELAP	PA	08/12/2015
EPA 8260	C	10307003	Naphthalene	5005	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Styrene	5100	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Tetrahydrofuran (THF)	5120	NELAP	PA	05/30/2013
EPA 8260	C	10307003	Toluene	5140	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	C	10307003	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Vinyl acetate	5225	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Vinyl chloride (Chloroethene)	5235	NELAP	PA	02/25/2010
EPA 8260	C	10307003	Xylenes, total	5260	NELAP	PA	02/25/2010
EPA 8260	C	10307003	cis-1,2-Dichloroethene	4645	NELAP	PA	02/25/2010
EPA 8260	C	10307003	cis-1,3-Dichloropropene	4680	NELAP	PA	02/25/2010
EPA 8260	C	10307003	m+p-Xylene	5240	NELAP	PA	02/25/2010
EPA 8260	C	10307003	n-Butylbenzene	4435	NELAP	PA	02/25/2010
EPA 8260	C	10307003	n-Hexane	4855	NELAP	PA	02/25/2010
EPA 8260	C	10307003	n-Propylbenzene	5090	NELAP	PA	02/25/2010
EPA 8260	C	10307003	o-Xylene	5250	NELAP	PA	02/25/2010
EPA 8260	C	10307003	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	02/25/2010
EPA 8260	C	10307003	sec-Butylbenzene	4440	NELAP	PA	02/25/2010
EPA 8260	C	10307003	tert-Amyl methyl ether (TAME)	4370	NELAP	PA	02/25/2010
EPA 8260	C	10307003	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	02/25/2010
EPA 8260	C	10307003	tert-Butylbenzene	4445	NELAP	PA	02/25/2010
EPA 8260	C	10307003	trans-1,2-Dichloroethene	4700	NELAP	PA	02/25/2010
EPA 8260	C	10307003	trans-1,3-Dichloropropene	4685	NELAP	PA	02/25/2010
EPA 8260	C	10307003	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	05/30/2013
EPA 8260	D	10307127	1,1,1,2-Tetrachloroethane	5105	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1,1-Trichloroethane	5160	NELAP	PA	02/03/2023

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	1,1,2,2-Tetrachloroethane	5110	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	NELAP	PA	04/11/2023
EPA 8260	D	10307127	1,1,2-Trichloroethane	5165	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1,2-Trichlorofluoroethane	5167	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1-Dichloroethane	4630	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1-Dichloroethene (1,1-Dichloroethylene)	4640	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,1-Dichloropropene	4670	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,3-Trichlorobenzene	5150	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,3-Trichloropropane (1,2,3-TCP)	5180	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2,4-Trimethylbenzene	5210	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	4570	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dichloroethane	4635	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,2-Dichloropropane	4655	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,3,5-Trichlorobenzene	6800	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,3,5-Trimethylbenzene	5215	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,3-Dichloropropane	4660	NELAP	PA	02/03/2023
EPA 8260	D	10307127	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/03/2023

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2,2-Dichloropropane	4665	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Butanone (Methyl ethyl ketone, MEK)	4410	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Chloroethyl vinyl ether	4500	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Chlorotoluene	4535	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Hexanone	4860	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Methylnaphthalene	6385	NELAP	PA	02/03/2023
EPA 8260	D	10307127	2-Nitropropane	5020	NELAP	PA	02/03/2023
EPA 8260	D	10307127	4-Chlorotoluene	4540	NELAP	PA	02/03/2023
EPA 8260	D	10307127	4-Methyl-2-pentanone (MIBK)	4995	NELAP	PA	02/28/2023
EPA 8260	D	10307127	Acetone	4315	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Acetonitrile	4320	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Acrolein (Propenal)	4325	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Acrylonitrile	4340	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Allyl chloride (3-Chloropropene)	4355	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Benzene	4375	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromobenzene	4385	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromochloromethane	4390	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromodichloromethane	4395	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Bromoform	4400	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Carbon disulfide	4450	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Carbon tetrachloride	4455	NELAP	PA	02/03/2023

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Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Chlorobenzene	4475	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Chloroethane	4485	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Chloroform	4505	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Chloroprene (2-Chloro-1,3-butadiene)	4525	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Cyclohexane	4555	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Cyclohexanone	4560	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Dibromochloromethane	4575	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Dibromomethane	4595	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Dichlorodifluoromethane (Freon 12)	4625	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Diethyl ether (Ethyl ether)	4725	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Diisopropyl ether (DIPE)	9375	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethanol	4750	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethyl acetate	4755	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethyl methacrylate	4810	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethyl tert-butyl ether (ETBE)	4770	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Ethylbenzene	4765	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Iodomethane (Methyl iodide)	4870	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Isobutyl alcohol (2-Methyl-1-propanol)	4875	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Isopropylbenzene (Cumene)	4900	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methacrylonitrile	4925	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methyl acetate	4940	NELAP	PA	02/03/2023

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	Methyl bromide (Bromomethane)	4950	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methyl chloride (Chloromethane)	4960	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methyl tert-butyl ether (MTBE)	5000	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methylcyclohexane	4965	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methylene chloride (Dichloromethane)	4975	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Methylmethacrylate	4990	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Naphthalene	5005	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Propionitrile (Ethyl cyanide)	5080	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Styrene	5100	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Tetrachloroethene (PCE, Perchloroethylene)	5115	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Tetrahydrofuran (THF)	5120	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Toluene	5140	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Trichloroethene (TCE, Trichloroethylene)	5170	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Trichlorofluoromethane (Freon 11)	5175	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Vinyl acetate	5225	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Vinyl chloride (Chloroethene)	5235	NELAP	PA	02/03/2023
EPA 8260	D	10307127	Xylenes, total	5260	NELAP	PA	02/28/2023
EPA 8260	D	10307127	cis-1,2-Dichloroethene	4645	NELAP	PA	02/03/2023
EPA 8260	D	10307127	cis-1,3-Dichloropropene	4680	NELAP	PA	02/03/2023
EPA 8260	D	10307127	m+p-Xylene	5240	NELAP	PA	02/03/2023
EPA 8260	D	10307127	n-Butylbenzene	4435	NELAP	PA	02/03/2023
EPA 8260	D	10307127	n-Hexane	4855	NELAP	PA	02/03/2023

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8260	D	10307127	n-Propylbenzene	5090	NELAP	PA	02/03/2023
EPA 8260	D	10307127	o-Xylene	5250	NELAP	PA	02/03/2023
EPA 8260	D	10307127	p-Isopropyltoluene (4-Isopropyltoluene)	4910	NELAP	PA	02/03/2023
EPA 8260	D	10307127	sec-Butylbenzene	4440	NELAP	PA	02/03/2023
EPA 8260	D	10307127	tert-Amyl methyl ether (TAME)	4370	NELAP	PA	02/03/2023
EPA 8260	D	10307127	tert-Butyl alcohol (2-Methyl-2-propanol)	4420	NELAP	PA	02/03/2023
EPA 8260	D	10307127	tert-Butylbenzene	4445	NELAP	PA	02/03/2023
EPA 8260	D	10307127	trans-1,2-Dichloroethene	4700	NELAP	PA	02/03/2023
EPA 8260	D	10307127	trans-1,3-Dichloropropene	4685	NELAP	PA	02/03/2023
EPA 8260	D	10307127	trans-1,4-Dichloro-2-butene	4605	NELAP	PA	02/03/2023
EPA 8270	D	10186035	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	03/30/2015
EPA 8270	D	10186002	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	10/02/2012
EPA 8270	D	10186035	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	10/02/2012
EPA 8270	D	10186035	1,2,4-Trichlorobenzene	5155	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,2-Diphenylhydrazine	6220	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	02/25/2010
EPA 8270	D	10186035	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	02/25/2010
EPA 8270	D	10186002	1-Methylnaphthalene	6380	NELAP	PA	09/18/2013
EPA 8270	D	10186035	1-Methylnaphthalene	6380	NELAP	PA	09/18/2013

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1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	02/25/2010
EPA 8270	D	10186002	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	10/02/2012
EPA 8270	D	10186035	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	10/02/2012
EPA 8270	D	10186035	2,4,5-Trichlorophenol	6835	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4,6-Trichlorophenol	6840	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dichlorophenol	6000	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dimethylphenol	6130	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dinitrophenol	6175	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Chloronaphthalene	5795	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Chlorophenol	5800	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Methylnaphthalene	6385	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Methylphenol (o-Cresol)	6400	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Nitroaniline	6460	NELAP	PA	02/25/2010
EPA 8270	D	10186035	2-Nitrophenol	6490	NELAP	PA	02/25/2010
EPA 8270	D	10186035	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	02/25/2010
EPA 8270	D	10186035	3,3'-Dichlorobenzidine	5945	NELAP	PA	02/25/2010
EPA 8270	D	10186035	3-Nitroaniline	6465	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Bromophenyl phenyl ether	5660	NELAP	PA	02/25/2010

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Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	4-Chloro-3-methylphenol	5700	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Chloroaniline	5745	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Chlorophenyl phenyl ether	5825	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Nitroaniline	6470	NELAP	PA	02/25/2010
EPA 8270	D	10186035	4-Nitrophenol	6500	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Acenaphthene	5500	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Acenaphthylene	5505	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Acetophenone	5510	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Aniline	5545	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Anthracene	5555	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Atrazine	7065	NELAP	PA	03/30/2015
EPA 8270	D	10186035	Azobenzene	5562	NELAP	PA	08/02/2019
EPA 8270	D	10186035	Benzaldehyde	5570	NELAP	PA	03/30/2015
EPA 8270	D	10186035	Benzidine	5595	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[a]anthracene	5575	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[a]pyrene	5580	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[b]fluoranthene	5585	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[ghi]perylene	5590	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzo[k]fluoranthene	5600	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzoic acid	5610	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Benzyl alcohol	5630	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	02/25/2010

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Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Caprolactam	7180	NELAP	PA	03/30/2015
EPA 8270	D	10186035	Carbazole	5680	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Di-n-butyl phthalate	5925	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Di-n-octyl phthalate	6200	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Dibenzo[a,h]anthracene	5895	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Dibenzofuran	5905	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Diethyl phthalate	6070	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Dimethyl phthalate	6135	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Fluoranthene	6265	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Fluorene	6270	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachlorobenzene	6275	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachlorocyclopentadiene	6285	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Hexachloroethane	4840	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Isophorone	6320	NELAP	PA	02/25/2010
EPA 8270	D	10186035	N-Nitrosodi-n-propylamine	6545	NELAP	PA	02/25/2010
EPA 8270	D	10186035	N-Nitrosodimethylamine	6530	NELAP	PA	02/25/2010
EPA 8270	D	10186035	N-Nitrosodiphenylamine	6535	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Naphthalene	5005	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Nitrobenzene	5015	NELAP	PA	02/25/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	D	10186035	Pentachlorophenol (PCP)	6605	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Phenanthrene	6615	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Phenol	6625	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Pyrene	6665	NELAP	PA	02/25/2010
EPA 8270	D	10186035	Pyridine	5095	NELAP	PA	02/25/2010
EPA 8270	D	10186035	bis(2-Chloroethoxy)methane	5760	NELAP	PA	02/25/2010
EPA 8270	D	10186035	bis(2-Chloroethyl) ether	5765	NELAP	PA	02/25/2010
EPA 8270	D	10186035	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	02/25/2010
EPA 8270	D	10186035	n-Decane	5875	NELAP	PA	02/09/2022
EPA 8270	D	10186035	n-Octadecane	6580	NELAP	PA	02/09/2022
EPA 8270	E	10242543	1,1'-Biphenyl (Biphenyl, Lemonene)	6703	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2,4,5-Tetrachlorobenzene	6715	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2,4-Trichlorobenzene	5155	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,2-Diphenylhydrazine	6220	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	NELAP	PA	12/22/2020
EPA 8270	E	10242543	1-Methylnaphthalene	6380	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	4659	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,3,4,6-Tetrachlorophenol	6735	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4,5-Trichlorophenol	6835	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	2,4,6-Trichlorophenol	6840	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dichlorophenol	6000	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dimethylphenol	6130	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dinitrophenol	6175	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,4-Dinitrotoluene (2,4-DNT)	6185	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2,6-Dinitrotoluene (2,6-DNT)	6190	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Chloronaphthalene	5795	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Chlorophenol	5800	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Methylnaphthalene	6385	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Methylphenol (o-Cresol)	6400	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Nitroaniline	6460	NELAP	PA	12/22/2020
EPA 8270	E	10242543	2-Nitrophenol	6490	NELAP	PA	12/22/2020
EPA 8270	E	10242543	3+4-Methylphenol (m+p-Cresol)	6412	NELAP	PA	12/22/2020
EPA 8270	E	10242543	3,3'-Dichlorobenzidine	5945	NELAP	PA	12/22/2020
EPA 8270	E	10242543	3-Nitroaniline	6465	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Bromophenyl phenyl ether	5660	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Chloro-3-methylphenol	5700	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Chloroaniline	5745	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Chlorophenyl phenyl ether	5825	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Nitroaniline	6470	NELAP	PA	12/22/2020
EPA 8270	E	10242543	4-Nitrophenol	6500	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Acenaphthene	5500	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Acenaphthylene	5505	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Acetophenone	5510	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Aniline	5545	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Anthracene	5555	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Atrazine	7065	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Azobenzene	5562	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzaldehyde	5570	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzidine	5595	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[a]anthracene	5575	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[a]pyrene	5580	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[b]fluoranthene	5585	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[ghi]perylene	5590	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzo[k]fluoranthene	5600	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzoic acid	5610	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Benzyl alcohol	5630	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Butyl benzyl phthalate (Benzyl butyl phthalate)	5670	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Caprolactam	7180	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Carbazole	5680	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Di-n-butyl phthalate	5925	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Di-n-octyl phthalate	6200	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	Dibenzo[a,h]anthracene	5895	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Dibenzofuran	5905	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Diethyl phthalate	6070	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Dimethyl phthalate	6135	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Fluoranthene	6265	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Fluorene	6270	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachlorobenzene	6275	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	4835	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachlorocyclopentadiene	6285	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Hexachloroethane	4840	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Isophorone	6320	NELAP	PA	12/22/2020
EPA 8270	E	10242543	N-Nitrosodi-n-propylamine	6545	NELAP	PA	12/22/2020
EPA 8270	E	10242543	N-Nitrosodimethylamine	6530	NELAP	PA	12/22/2020
EPA 8270	E	10242543	N-Nitrosodiphenylamine	6535	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Naphthalene	5005	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Nitrobenzene	5015	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Pentachlorophenol (PCP)	6605	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Phenanthrene	6615	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Phenol	6625	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Pyrene	6665	NELAP	PA	12/22/2020
EPA 8270	E	10242543	Pyridine	5095	NELAP	PA	12/22/2020

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270	E	10242543	bis(2-Chloroethoxy)methane	5760	NELAP	PA	12/22/2020
EPA 8270	E	10242543	bis(2-Chloroethyl) ether	5765	NELAP	PA	12/22/2020
EPA 8270	E	10242543	bis(2-Ethylhexyl) phthalate (DEHP)	6065	NELAP	PA	12/22/2020
EPA 8270	E	10242543	n-Decane	5875	NELAP	PA	02/09/2022
EPA 8270	E	10242543	n-Octadecane	6580	NELAP	PA	02/09/2022
EPA 8270		10185203	Azobenzene	5562	NELAP	PA	08/02/2019
EPA 8270 SIM	D	10242509	1,4-Dioxane (1,4-Diethyleneoxide)	4735	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Acenaphthene	5500	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Acenaphthylene	5505	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Anthracene	5555	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[a]anthracene	5575	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[a]pyrene	5580	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[b]fluoranthene	5585	NELAP	PA	07/15/2020
EPA 8270 SIM	D	10242509	Benzo[ghi]perylene	5590	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Benzo[k]fluoranthene	5600	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Dibenzo[a,h]anthracene	5895	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Fluoranthene	6265	NELAP	PA	07/15/2020
EPA 8270 SIM	D	10242509	Fluorene	6270	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	07/15/2020
EPA 8270 SIM	D	10242509	Naphthalene	5005	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Phenanthrene	6615	NELAP	PA	04/24/2019

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 8270 SIM	D	10242509	Pyrene	6665	NELAP	PA	04/24/2019
EPA 8270 SIM	D	10242509	Quinoline	6670	NELAP	PA	04/24/2019
EPA 8270 SIM	E	10242565	1-Methylnaphthalene	6380	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	2-Methylnaphthalene	6385	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Acenaphthene	5500	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Acenaphthylene	5505	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Anthracene	5555	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[a]anthracene	5575	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[a]pyrene	5580	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[b]fluoranthene	5585	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[ghi]perylene	5590	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Benzo[k]fluoranthene	5600	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Chrysene (Benzo[a]phenanthrene)	5855	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Dibenzo[a,h]anthracene	5895	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Fluoranthene	6265	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Fluorene	6270	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Indeno(1,2,3-cd)pyrene	6315	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Naphthalene	5005	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Phenanthrene	6615	NELAP	PA	12/22/2020
EPA 8270 SIM	E	10242565	Pyrene	6665	NELAP	PA	12/22/2020
EPA 901.1		10308608	Gamma emitters	2826	NELAP	PA	08/12/2008
EPA 9010	C	10193109	Total cyanide	1645	NELAP	PA	02/22/2013

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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
EPA 9012	B	10243228	Total cyanide	1645	NELAP	PA	03/20/2024
EPA 9014		10193803	Total cyanide	1645	NELAP	PA	04/22/2008
EPA 9038		10196608	Sulfate	2000	NELAP	PA	04/15/2009
EPA 9045	D	10198455	Corrosivity (pH)	1625	NELAP	PA	06/24/2024
EPA 906.0 (Modified)		618	Tritium	3030	NELAP	PA	08/12/2008
EPA 9065		10200405	Total phenolics	1905	NELAP	PA	05/06/2009
EPA 9071	B	10201806	Oil and grease	1803	NELAP	PA	05/07/2010
EPA 9071	B	10201806	Total petroleum hydrocarbons (TPH)	2050	NELAP	PA	05/07/2010
EPA 9095	B	10245600	Paint filter liquids test	1434	NELAP	PA	02/22/2013
EPA 9251		10207406	Chloride	1575	NELAP	PA	10/30/2015
EPA 9310	3rd ed.	10310802	Gross alpha	2830	NELAP	PA	05/27/2008
EPA 9310	3rd ed.	10310802	Gross beta	2840	NELAP	PA	05/27/2008
HASL 300 Th-01-RC	28th ed.	90010803	Thorium-228	1171	NELAP	PA	08/16/2023
HASL 300 Th-01-RC	28th ed.	90010803	Thorium-230	3027	NELAP	PA	08/16/2023
HASL 300 Th-01-RC	28th ed.	90010803	Thorium-232	3033	NELAP	PA	08/16/2023
HASL 300 U-02-RC	28th ed.	90011408	Uranium-234	3036	NELAP	PA	01/28/2021
HASL 300 U-02-RC	28th ed.	90011408	Uranium-235	3037	NELAP	PA	08/25/2021
HASL 300 U-02-RC	28th ed.	90011408	Uranium-238	3038	NELAP	PA	01/28/2021
SM 2540G - 2011	Online ed.	20005270	Percent moisture in soil	8641	NELAP	PA	12/02/2021
SM 2540G - 2011	Online ed.	20005270	Percent solids	8642	NELAP	PA	12/02/2021
SM 4500-P B - 2011	22nd ed.	20123211	Preliminary treatment of phosphate samples	1479	NELAP	PA	09/11/2009
SM 4500-P E - 2011	Online ed.	20124225	Phosphorus, total	1910	NELAP	PA	09/11/2009

Annmarie Beach

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 025-009 expiration date 03/31/2025. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Solid and Chemical Materials

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Effective Date
SOP (00282) ENV-SOP-GBUR-0069	6		Preparation of Solid Samples for Strontium		NELAP	PA	02/09/2024
SOP (00282) ENV-SOP-GBUR-0126	4		Chloride Water Leach Preparation for EPA 9251		NELAP	PA	02/09/2024
SOP (00282) ENV-SOP-GBUR-0139	4		Thiocyanate Water Leach Preparation for SM 4500-CN-M		NELAP	PA	02/09/2024
SOP (00282) ENV-SOP-GBUR-0140	4		Sulfate Preparation for EPA 9038		NELAP	PA	02/09/2024

Annmarie Beach

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Status Summary

Pace Analytical Services LLC - Greensburg PA
1638 Roseytown Suites 2, 3, & 4
Greensburg, PA 15601
(724) 850-5600

DEP Laboratory ID: 65-00282
EPA Lab Code: PA01457
TNI Code: TNI02141
PADWIS ID: 65282

Matrix: Non-Potable Water

Method	Revision	TNI Method Code	Analyte	TNI Analyte Code	Accreditation Type	Primary State	Status	Effective Date
SM 4500-Cl G - 2011	Online ed.	20081623	Total residual chlorine	1940	NELAP	PA	Suspended	06/10/2024

Annmarie Beach

The Laboratory Status Summary is not a continuation of the Scope of Accreditation. This Status Summary includes fields of accreditation for which the laboratory does not hold accreditation per the effective date listed above.

June 13, 2024

RE: Georgia Commercial Laboratory Accreditation Rule

Stipulation Requirements for Analysis of Non-Potable Water and Solid and Chemical Materials
Georgia state law requires any person submitting data to the GA Environmental Protection Division for regulatory purposes to stipulate that the laboratory responsible for preparing the data is approved or accredited to perform analysis of environmental samples. This stipulation must be included within each report or may be submitted in a separate document with the first report of the calendar year; alternatively, the attached scope of accreditation may be submitted in lieu of a stipulation.

The information provided below may be used to generate a stipulation for data reporting purposes:

Name of Laboratory:	Pace Analytical Services, LLC – Asheville, NC
Name of Accrediting Agency:	Commonwealth of Virginia Department of General Services Division of Consolidated Laboratory Services [Primary NELAP Accreditation]
Accreditation Number:	460222
Scopes of Accreditation:	Non-Potable Water Solid and Chemical Materials
Accreditation Effective Date:	June 15, 2024
Accreditation Expiration Date:	June 14, 2025

For additional information regarding the Georgia Commercial Laboratory Accreditation Rule, please contact the Georgia Environmental Protection Division at 404-656-4713.

Sincerely,

Kyle Henderson
Quality Manager

[O] 704.526.7835
Kyle.Henderson@pacelabs.com
2225 Riverside Drive, Asheville, NC 28804

APPENDIX C

Well Condition Inspection Table and Well Maintenance and Repair Documentation

APPENDIX C

Well Condition Inspection Table

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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)
DGWA-53	NO	YES	NO	YES
DGWA-70A	YES	YES	NO	YES
DGWA-71	NO	YES	NO	YES
DGWC-37	YES	YES	NO	YES
DGWC-38	YES	YES	NO	YES
DGWC-39	YES	YES	NO	YES
DGWC-40	YES	YES	NO	YES
DGWC-67	YES	YES	NO	YES
DGWC-68A	YES	YES	NO	YES
DGWC-69	YES	YES	NO	YES
DGWC-121	YES	YES	NO	YES
B-62	YES	YES	NO	YES
B-100	YES	YES	NO	YES
B-105D	YES	YES	NO	YES
B-112D	YES	YES	NO	YES
DGWC-2	YES	YES	NO	YES
DGWC-4	YES	YES	NO	YES
DGWC-5	YES	YES	NO	YES
DGWC-8	YES	YES	NO	YES
DGWC-9	YES	YES	NO	YES
DGWC-10	YES	YES	NO	YES
DGWC-11	YES	YES	NO	YES
DGWC-12	YES	YES	NO	YES
DGWC-13	YES	YES	NO	YES
DGWC-14	YES	YES	NO	YES
DGWC-15	YES	YES	NO	YES
DGWC-17	YES	YES	NO	YES
DGWC-19	YES	YES	NO	YES
DGWC-20	YES	YES	NO	YES
DGWC-21	YES	YES	NO	YES
DGWC-22	YES	YES	NO	YES
DGWC-23	YES	YES	NO	YES
DGWC-42	YES	YES	NO	YES
DGWC-47	YES	YES	NO	YES
DGWC-48	YES	YES	NO	YES
B-56	YES	YES	NO	YES
B-63	YES	YES	NO	YES
B-66	YES	YES	NO	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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)
B-77	YES	YES	NO	YES
B-82	YES	YES	NO	YES
B-83	YES	YES	NO	YES
B-88	YES	YES	NO	YES
B-92	YES	YES	YES	YES
B-93	YES	YES	YES	YES
B-97	YES	YES	YES	YES
B-98	YES	YES	YES	YES
B-101D	YES	YES	NO	YES
B-102D	YES	YES	NO	YES
B-104D	YES	YES	NO	YES
B-106D	YES	YES	NO	YES
B-107D	YES	YES	NO	YES
B-108D	YES	YES	NO	YES
B-111D	YES	YES	NO	YES
B-120D	YES	YES	NO	YES
B-122D	YES	YES	NO	YES
B-125D	YES	YES	YES	YES
B-3	YES	YES	NO	YES
B-6	YES	YES	NO	YES
B-7	YES	YES	NO	YES
B-16	YES	YES	NO	YES
B-18	YES	YES	NO	YES
B-24	YES	YES	NO	YES
B-25	YES	YES	NO	YES
B-26	YES	YES	NO	YES
B-28	YES	YES	NO	YES
B-29	YES	YES	NO	YES
B-31	YES	YES	NO	YES
B-41	YES	YES	NO	YES
B-50	YES	YES	NO	YES
B-51	YES	YES	NO	YES
B-52	YES	YES	NO	YES
B-54	YES	YES	NO	YES
B-55	YES	YES	NO	YES
B-57	YES	YES	NO	YES
B-58	YES	YES	NO	YES
B-59	YES	YES	NO	YES

Well Inspection

Site Name: Plant McDonough Date: 9/3/2024

Permit Number: NA Field Conditions: Sunny

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)
B-60	YES	YES	NO	YES
B-61	YES	YES	NO	YES
B-64	YES	YES	NO	YES
B-65	YES	YES	NO	YES
B-68	YES	YES	NO	YES
B-72	YES	YES	NO	YES
B-73	YES	YES	NO	YES
B-74	YES	YES	NO	YES
B-76	YES	YES	NO	YES
B-78	YES	YES	NO	YES
B-79	YES	YES	NO	YES
B-80	NO	YES	NO	YES
B-81	YES	YES	NO	YES
B-84	YES	YES	NO	YES
B-85	YES	YES	NO	YES
B-86	YES	NO	NO	YES
B-87	YES	YES	NO	YES
B-89	YES	YES	NO	YES
B-90	YES	YES	YES	YES
B-91	YES	NO	YES	YES
B-94	NO	YES	NO	YES
B-95	YES	YES	YES	YES
B-96	YES	YES	YES	YES
B-99	YES	YES	NO	YES
B-103D	YES	YES	NO	YES
B-109D	YES	YES	NO	YES
B-110D	YES	YES	NO	YES
B-113D	YES	YES	NO	NO
B-115D	YES	YES	NO	YES
B-116D	YES	YES	NO	YES
B-117D	NO	YES	NO	YES
B-118	YES	YES	NO	YES
B-119D	YES	YES	NO	YES
B-123D	YES	YES	NO	YES
AP-1-B-3	YES	YES	NO	YES
AP-1-B-7	YES	YES	NO	YES
AP-1-B-8	YES	YES	NO	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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)
DW-1	YES	YES	NO	YES
DW-2	YES	YES	NO	YES
DW-3	YES	YES	NO	YES
DW-4	YES	YES	NO	YES
WT-1	YES	YES	NO	YES
WT-2	YES	YES	NO	YES
WT-3	YES	YES	NO	YES
WT-4	YES	YES	NO	YES
WT-5	YES	YES	NO	YES
WT-6	YES	YES	NO	YES
WT-7	NO	YES	NO	YES
ET-1	YES	YES	NO	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
DGWA-53	YES	YES	YES	YES	YES
DGWA-70A	YES	YES	YES	YES	YES
DGWA-71	YES	YES	YES	YES	YES
DGWC-37	YES	YES	YES	YES	YES
DGWC-38	YES	YES	YES	YES	NO
DGWC-39	YES	YES	YES	YES	YES
DGWC-40	YES	YES	YES	YES	YES
DGWC-67	YES	YES	YES	YES	YES
DGWC-68A	YES	YES	YES	YES	YES
DGWC-69	YES	YES	YES	YES	YES
DGWC-121	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES
B-105D	YES	YES	YES	YES	YES
B-112D	YES	YES	YES	YES	YES
DGWC-2	YES	YES	YES	YES	YES
DGWC-4	YES	YES	YES	YES	YES
DGWC-5	YES	YES	YES	YES	YES
DGWC-8	YES	YES	YES	YES	YES
DGWC-9	YES	YES	YES	YES	YES
DGWC-10	YES	YES	YES	YES	YES
DGWC-11	YES	YES	YES	YES	YES
DGWC-12	YES	YES	YES	YES	YES
DGWC-13	YES	YES	YES	YES	YES
DGWC-14	YES	YES	YES	YES	YES
DGWC-15	YES	YES	YES	YES	YES
DGWC-17	YES	YES	YES	YES	YES
DGWC-19	YES	YES	YES	YES	YES
DGWC-20	YES	YES	YES	YES	YES
DGWC-21	YES	YES	YES	YES	YES
DGWC-22	YES	YES	YES	YES	YES
DGWC-23	YES	YES	YES	YES	YES
DGWC-42	YES	YES	YES	YES	YES
DGWC-47	YES	YES	YES	YES	YES
DGWC-48	YES	YES	YES	YES	YES
B-56	NO	YES	YES	YES	NO
B-63	YES	YES	YES	YES	YES
B-66	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
B-77	YES	YES	YES	YES	YES
B-82	YES	YES	NO	YES	YES
B-83	YES	YES	YES	YES	YES
B-88	YES	YES	YES	YES	YES
B-92	YES	YES	YES	YES	YES
B-93	YES	YES	YES	YES	YES
B-97	YES	YES	YES	YES	YES
B-98	YES	YES	YES	YES	YES
B-101D	YES	YES	YES	YES	YES
B-102D	YES	YES	YES	YES	YES
B-104D	YES	YES	YES	YES	YES
B-106D	YES	YES	YES	YES	YES
B-107D	YES	YES	YES	YES	YES
B-108D	YES	YES	YES	YES	YES
B-111D	YES	YES	YES	YES	YES
B-120D	YES	YES	YES	YES	YES
B-122D	YES	YES	YES	YES	YES
B-125D	YES	YES	YES	NO	YES
B-3	YES	YES	YES	YES	YES
B-6	YES	YES	YES	YES	YES
B-7	YES	YES	YES	YES	YES
B-16	YES	YES	YES	YES	YES
B-18	YES	YES	YES	YES	YES
B-24	YES	YES	YES	YES	YES
B-25	YES	YES	YES	YES	YES
B-26	YES	YES	YES	YES	YES
B-28	YES	YES	YES	YES	YES
B-29	YES	YES	YES	YES	YES
B-31	YES	YES	YES	YES	YES
B-41	YES	YES	YES	YES	YES
B-50	YES	YES	YES	YES	YES
B-51	YES	YES	YES	YES	YES
B-52	YES	YES	YES	YES	YES
B-54	YES	YES	YES	YES	YES
B-55	YES	YES	YES	YES	YES
B-57	YES	YES	YES	YES	YES
B-58	YES	YES	YES	YES	YES
B-59	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
B-60	YES	YES	YES	YES	YES
B-61	YES	YES	YES	YES	YES
B-64	YES	YES	YES	YES	YES
B-65	YES	YES	YES	YES	YES
B-68	NO	YES	YES	YES	YES
B-72	YES	YES	YES	YES	YES
B-73	YES	YES	YES	YES	YES
B-74	YES	YES	YES	YES	YES
B-76	YES	YES	YES	YES	YES
B-78	YES	YES	YES	YES	YES
B-79	YES	YES	YES	YES	YES
B-80	YES	YES	NO	YES	YES
B-81	YES	YES	YES	YES	YES
B-84	YES	YES	YES	YES	YES
B-85	YES	YES	YES	YES	YES
B-86	YES	YES	YES	YES	YES
B-87	YES	YES	YES	YES	YES
B-89	YES	YES	YES	YES	YES
B-90	YES	YES	YES	YES	YES
B-91	YES	YES	YES	YES	YES
B-94	YES	YES	YES	YES	YES
B-95	YES	YES	YES	YES	NO
B-96	YES	YES	YES	YES	YES
B-99	YES	YES	YES	YES	YES
B-103D	YES	YES	YES	YES	YES
B-109D	YES	YES	YES	YES	YES
B-110D	YES	YES	YES	YES	YES
B-113D	YES	YES	NA	NO	NA
B-115D	YES	YES	YES	YES	YES
B-116D	YES	YES	YES	YES	YES
B-117D	YES	YES	YES	YES	YES
B-118	YES	YES	YES	YES	YES
B-119D	YES	YES	YES	YES	YES
B-123D	YES	YES	YES	YES	YES
AP-1-B-3	YES	YES	YES	YES	YES
AP-1-B-7	YES	YES	YES	YES	YES
AP-1-B-8	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
DW-1	YES	YES	YES	YES	YES
DW-2	YES	YES	YES	YES	YES
DW-3	YES	YES	YES	YES	YES
DW-4	YES	YES	YES	YES	YES
WT-1	YES	YES	YES	YES	YES
WT-2	YES	YES	YES	YES	YES
WT-3	YES	YES	YES	YES	YES
WT-4	YES	YES	YES	YES	YES
WT-5	YES	YES	YES	YES	YES
WT-6	NO	YES	YES	YES	YES
WT-7	YES	YES	YES	YES	YES
ET-1	NO	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
DGWA-53	YES	YES	YES	YES	YES	YES
DGWA-70A	YES	YES	YES	YES	YES	YES
DGWA-71	YES	YES	YES	YES	YES	YES
DGWC-37	YES	YES	YES	YES	YES	YES
DGWC-38	YES	YES	YES	YES	YES	YES
DGWC-39	YES	YES	YES	YES	YES	YES
DGWC-40	YES	YES	YES	NO	YES	YES
DGWC-67	YES	YES	YES	YES	YES	YES
DGWC-68A	YES	YES	YES	YES	YES	YES
DGWC-69	YES	YES	YES	YES	YES	YES
DGWC-121	YES	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES	YES
B-105D	YES	YES	YES	YES	YES	YES
B-112D	YES	YES	YES	YES	YES	YES
DGWC-2	YES	YES	YES	YES	YES	YES
DGWC-4	YES	YES	YES	YES	YES	YES
DGWC-5	YES	YES	YES	YES	YES	YES
DGWC-8	YES	YES	YES	YES	YES	YES
DGWC-9	YES	YES	YES	YES	YES	YES
DGWC-10	YES	YES	YES	YES	YES	YES
DGWC-11	YES	YES	YES	YES	YES	YES
DGWC-12	YES	YES	YES	YES	YES	YES
DGWC-13	YES	YES	YES	YES	YES	YES
DGWC-14	YES	YES	YES	YES	YES	YES
DGWC-15	YES	YES	YES	YES	YES	YES
DGWC-17	YES	YES	YES	YES	YES	YES
DGWC-19	YES	YES	YES	YES	YES	YES
DGWC-20	YES	YES	YES	YES	YES	YES
DGWC-21	YES	YES	YES	YES	YES	YES
DGWC-22	YES	YES	YES	YES	YES	YES
DGWC-23	YES	YES	YES	YES	YES	YES
DGWC-42	YES	YES	YES	YES	YES	YES
DGWC-47	YES	YES	YES	YES	YES	YES
DGWC-48	YES	YES	YES	YES	YES	YES
B-56	YES	YES	YES	YES	YES	YES
B-63	YES	YES	YES	YES	YES	YES
B-66	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
B-77	YES	YES	YES	YES	YES	YES
B-82	YES	YES	YES	YES	YES	YES
B-83	YES	YES	YES	YES	YES	YES
B-88	YES	YES	YES	YES	YES	YES
B-92	YES	YES	YES	YES	YES	YES
B-93	YES	YES	YES	YES	YES	YES
B-97	YES	YES	YES	YES	YES	YES
B-98	YES	YES	YES	YES	YES	YES
B-101D	YES	YES	YES	YES	YES	YES
B-102D	YES	YES	YES	YES	YES	YES
B-104D	YES	YES	YES	YES	YES	YES
B-106D	YES	YES	YES	YES	YES	YES
B-107D	YES	YES	YES	YES	YES	YES
B-108D	YES	YES	YES	YES	YES	YES
B-111D	YES	YES	YES	YES	YES	YES
B-120D	YES	YES	YES	YES	YES	YES
B-122D	YES	YES	YES	YES	YES	YES
B-125D	YES	YES	YES	YES	YES	YES
B-3	YES	YES	YES	YES	YES	YES
B-6	YES	YES	YES	YES	YES	YES
B-7	YES	YES	YES	YES	YES	YES
B-16	YES	YES	YES	YES	YES	YES
B-18	YES	YES	YES	YES	YES	YES
B-24	YES	YES	YES	YES	YES	YES
B-25	YES	YES	YES	YES	YES	YES
B-26	YES	YES	YES	YES	YES	YES
B-28	YES	YES	YES	YES	YES	YES
B-29	YES	YES	YES	YES	YES	YES
B-31	YES	YES	YES	YES	YES	YES
B-41	YES	YES	YES	YES	YES	YES
B-50	YES	YES	YES	YES	YES	YES
B-51	YES	YES	YES	YES	YES	YES
B-52	YES	YES	YES	YES	YES	YES
B-54	YES	YES	YES	YES	YES	YES
B-55	YES	YES	YES	YES	YES	YES
B-57	YES	YES	YES	YES	YES	YES
B-58	YES	YES	YES	YES	YES	YES
B-59	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
B-60	YES	YES	YES	YES	YES	YES
B-61	YES	YES	YES	YES	YES	YES
B-64	YES	YES	YES	YES	YES	YES
B-65	YES	YES	YES	YES	YES	YES
B-68	YES	YES	YES	YES	YES	YES
B-72	YES	YES	YES	YES	YES	YES
B-73	YES	YES	YES	YES	YES	YES
B-74	YES	YES	YES	YES	YES	YES
B-76	YES	YES	YES	YES	YES	YES
B-78	YES	YES	YES	YES	YES	YES
B-79	YES	YES	YES	YES	YES	YES
B-80	YES	YES	YES	YES	YES	YES
B-81	YES	YES	YES	YES	YES	YES
B-84	YES	YES	YES	YES	YES	YES
B-85	YES	YES	YES	YES	YES	YES
B-86	YES	YES	YES	YES	YES	YES
B-87	YES	YES	YES	YES	YES	YES
B-89	YES	YES	YES	YES	YES	YES
B-90	YES	YES	YES	YES	YES	YES
B-91	YES	YES	YES	YES	YES	YES
B-94	YES	YES	YES	YES	YES	YES
B-95	YES	YES	YES	YES	YES	YES
B-96	YES	YES	YES	YES	YES	YES
B-99	YES	YES	YES	YES	YES	YES
B-103D	YES	YES	YES	YES	YES	YES
B-109D	YES	YES	YES	YES	YES	YES
B-110D	YES	YES	YES	YES	YES	YES
B-113D	YES	YES	YES	YES	YES	YES
B-115D	YES	YES	YES	YES	YES	YES
B-116D	YES	YES	YES	YES	YES	YES
B-117D	YES	YES	YES	YES	YES	YES
B-118	YES	YES	YES	YES	YES	YES
B-119D	YES	YES	YES	YES	YES	YES
B-123D	YES	YES	YES	YES	YES	YES
AP-1-B-3	YES	YES	YES	YES	YES	YES
AP-1-B-7	YES	YES	YES	YES	YES	YES
AP-1-B-8	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/3/2024

Permit Number: NA

Field Conditions: Sunny

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
DW-1	YES	YES	YES	YES	YES	YES
DW-2	YES	YES	YES	YES	YES	YES
DW-3	YES	YES	YES	YES	YES	YES
DW-4	YES	YES	YES	YES	YES	YES
WT-1	YES	YES	YES	YES	YES	YES
WT-2	YES	YES	YES	YES	YES	YES
WT-3	YES	YES	YES	YES	YES	YES
WT-4	YES	YES	YES	YES	YES	YES
WT-5	YES	YES	YES	YES	YES	YES
WT-6	NO	YES	YES	YES	YES	YES
WT-7	YES	YES	YES	YES	YES	YES
ET-1	NO	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough Date: 9/3/2024

Permit Number: NA Field Conditions: Sunny

Well ID:	Corrective actions as needed, by date:
DGWA-53	Access trail partially blocked by rock/gravel stockpiles, path needs clearing
DGWA-70A	
DGWA-71	Clear overgrowth on pad
DGWC-37	
DGWC-38	Needs lock replacement
DGWC-39	
DGWC-40	Needs well cap
DGWC-67	
DGWC-68A	
DGWC-69	
DGWC-121	
B-62	
B-100	
B-105D	
B-112D	
DGWC-2	
DGWC-4	
DGWC-5	
DGWC-8	
DGWC-9	
DGWC-10	
DGWC-11	
DGWC-12	
DGWC-13	
DGWC-14	
DGWC-15	
DGWC-17	
DGWC-19	
DGWC-20	
DGWC-21	
DGWC-22	
DGWC-23	
DGWC-42	
DGWC-47	
DGWC-48	
B-56	Lid on exterior casing covering well needs adjusting- well is unable to be secured and locked
B-63	
B-66	

Well Inspection

Site Name: Plant McDonough Date: 9/3/2024

Permit Number: NA Field Conditions: Sunny

Well ID:	Corrective actions as needed, by date:
B-77	
B-82	Overgrowth around well pad needs clearing, weep hole needs to be put into internal PVC casing
B-83	
B-88	
B-92	Needs flat well cap
B-93	
B-97	
B-98	
B-101D	
B-102D	
B-104D	
B-106D	
B-107D	
B-108D	
B-111D	
B-120D	
B-122D	
B-125D	Pea gravel needs to be added to annular space
B-3	
B-6	
B-7	
B-16	
B-18	
B-24	
B-25	
B-26	
B-28	
B-29	
B-31	
B-41	
B-50	
B-51	
B-52	
B-54	
B-55	
B-57	
B-58	
B-59	

Well Inspection

Site Name: Plant McDonough Date: 9/3/2024

Permit Number: NA Field Conditions: Sunny

Well ID:	Corrective actions as needed, by date:
B-60	
B-61	
B-64	
B-65	
B-68	Bolt hole stripped on screw fastener affixing flush mount cover, needs replacement
B-72	
B-73	
B-74	
B-76	
B-78	
B-79	
B-80	Weep hole needs to be put into internal PVC casing
B-81	
B-84	
B-85	
B-86	Needs new label inside flush mount cover
B-87	
B-89	
B-90	
B-91	Needs new label
B-94	Overgrowth behind gate 23B needs clearing
B-95	Needs new lock
B-96	
B-99	
B-103D	
B-109D	
B-110D	
B-113D	Flush mount casing filled with water, cover need sealing
B-115D	
B-116D	
B-117D	Clear overgrowth on pad
B-118	
B-119D	
B-123D	
AP-1-B-3	
AP-1-B-7	
AP-1-B-8	

Well Inspection

Site Name: Plant McDonough Date: 9/3/2024

Permit Number: NA Field Conditions: Sunny

Well ID:	Corrective actions as needed, by date:
DW-1	
DW-2	
DW-3	
DW-4	
WT-1	
WT-2	
WT-3	
WT-4	
WT-5	
WT-6	Stream gauge bent at ~45° angle and split at top, not usable
WT-7	Appears unsafe to access. Path to stream gauge needs to be created and cleared
ET-1	Gauge needs cleaning and/or replacement. Measurements not legible near base.

APPENDIX C

Well Maintenance and Repair Documentation

TECHNICAL MEMORANDUM

DATE February 28, 2025

TO Joju Abraham, PG
Southern Company Services

CC Ben Hodges, Georgia Power Company

FROM WSP USA Inc

PLANT MCDONOUGH ASH POND 1, ASH POND 2, AND ASH POND 3/4
WELL MAINTENANCE AND REPAIR DOCUMENTATION
GEORGIA POWER COMPANY

WSP USA Inc. (WSP) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant McDonough Ash Pond 1, and Ash Pond 2 and 3/4 on February 8, 2024. Repairs and maintenance were completed in accordance with 12-5-134 (5)(D)vii of the Georgia Well Standards Act (1985) for routine visual inspections of groundwater monitoring wells (i.e., at least once every five years) under the direction of a Georgia licensed professional engineer or geologist.

Table 1: Plant McDonough Ash Pond 1, 2, 3/4 – Well Maintenance Summary

Well ID	Date Performed	Maintenance/Repair Performed
B-91	September 2024	New label added.
B-92	September 2024	Well cap added.
B-95	September 2024	Well lock replaced.
B-117D	January 2025	Cleaned off pad to improve access.
DGWA-71	January 2025	Cleaned off pad to improve access.
ET-1	September 2024	Gauge cleaned for legible measurement.
WT-7	January 2025	Access to stream gauge improved and cleared.
B-94	January 2025	Overgrowth behind gate 23B cleared to improve access.
DGWA-53	January 2025	Access improved by clearing stockpiles.
B-86	September 2024	Label added inside flush mount cover.
B-82	January 2025	Weep hole created; cleaned off pad.
B-80	September 2024	Weep hole created.

WSP USA Inc.
5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341 T: +1 770 496-1893 F: +1 770 934-9476

Well ID	Date Performed	Maintenance/Repair Performed
B-113D	September 2024	Cover sealed to prevent entry of water.
DGWC-40	September 2024	Well cap added.
DGWC-38	September 2024	Well lock replaced.
B-68	January 2025	Bolt holes on the manhole where tapped and new bolts installed.
B-125D	September 2024	Pea gravels added to annular space.
B-56	January 2025	Protective cover lid was inspected. Lid appeared in good condition and locked.

WSP USA Inc.

Rhonda N. Quinn, PG
Senior Consultant, Geologist

Dawn L. Prell, CPG
Vice President, Hydrogeologist

Attachments: Southern Company CFS
Plant McDonough Jan. 2025 Well O&M
(Jan. 7th)

Southern Company CFS
Plant McDonough Jan. 2025 Well O&M (Jan. 7th)

McDonough AP4:

B-56 – Protective cover lid was inspected. Lid appeared in good condition and locked.

McDonough AP1:

B-68 – Bolt holes on the manhole where tapped and new bolts installed.

Southern Company

APPENDIX D

Annual Water Well Survey

Plant McDonough
5551 South Cobb Drive SE
Atlanta, GA 30339

Inquiry Number: 7787989.1s
October 09, 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 SSURGO Soil Map ---- **A-5**

Physical Setting Source Map ---- **A-14**

Physical Setting Source Map Findings ---- **A-15**

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.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT MCDONOUGH
5551 SOUTH COBB DRIVE SE
ATLANTA, GA 30339

TARGET PROPERTY COORDINATES

Latitude (North):	33.818566 - 33° 49' 6.84''
Longitude (West):	84.481499 - 84° 28' 53.40''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	733105.4
UTM Y (Meters):	3744697.8
Elevation:	791 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33084-G4 NORTHWEST ATLANTA, GA
Version Date:	1997

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).

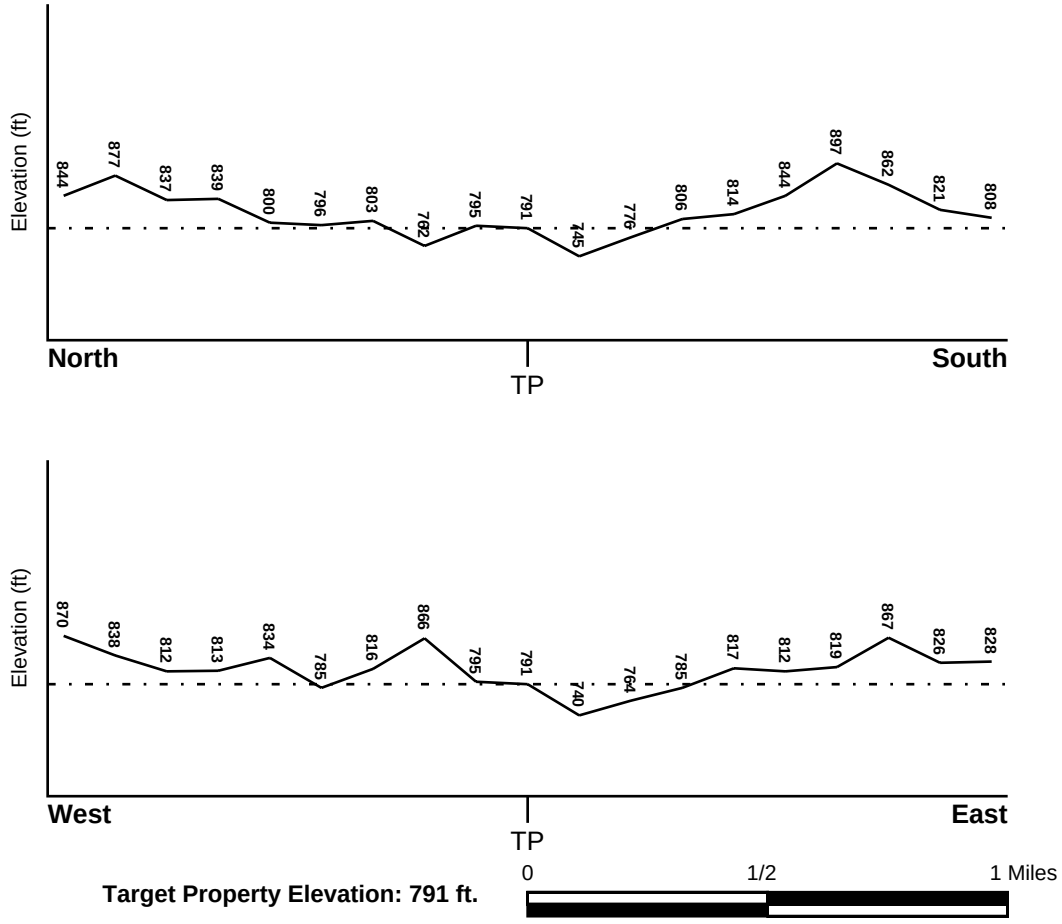
TOPOGRAPHIC INFORMATION

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 ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 791 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
13067C0228H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13067C0226G	FEMA FIRM Flood data
13067C0227H	FEMA FIRM Flood data
13067C0209H	FEMA FIRM Flood data
13067C0229H	FEMA FIRM Flood data
13121C0229F	FEMA FIRM Flood data
13067C0236H	FEMA FIRM Flood data
13067C0217H	FEMA FIRM Flood data
13121C0237F	FEMA FIRM Flood data
13121C0236F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NORTHWEST ATLANTA	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
1	1/8 - 1/4 Mile SE	SSW
2	1/2 - 1 Mile SSE	SW
3	1/2 - 1 Mile South	SW

For additional site information, refer to Physical Setting Source Map Findings.

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

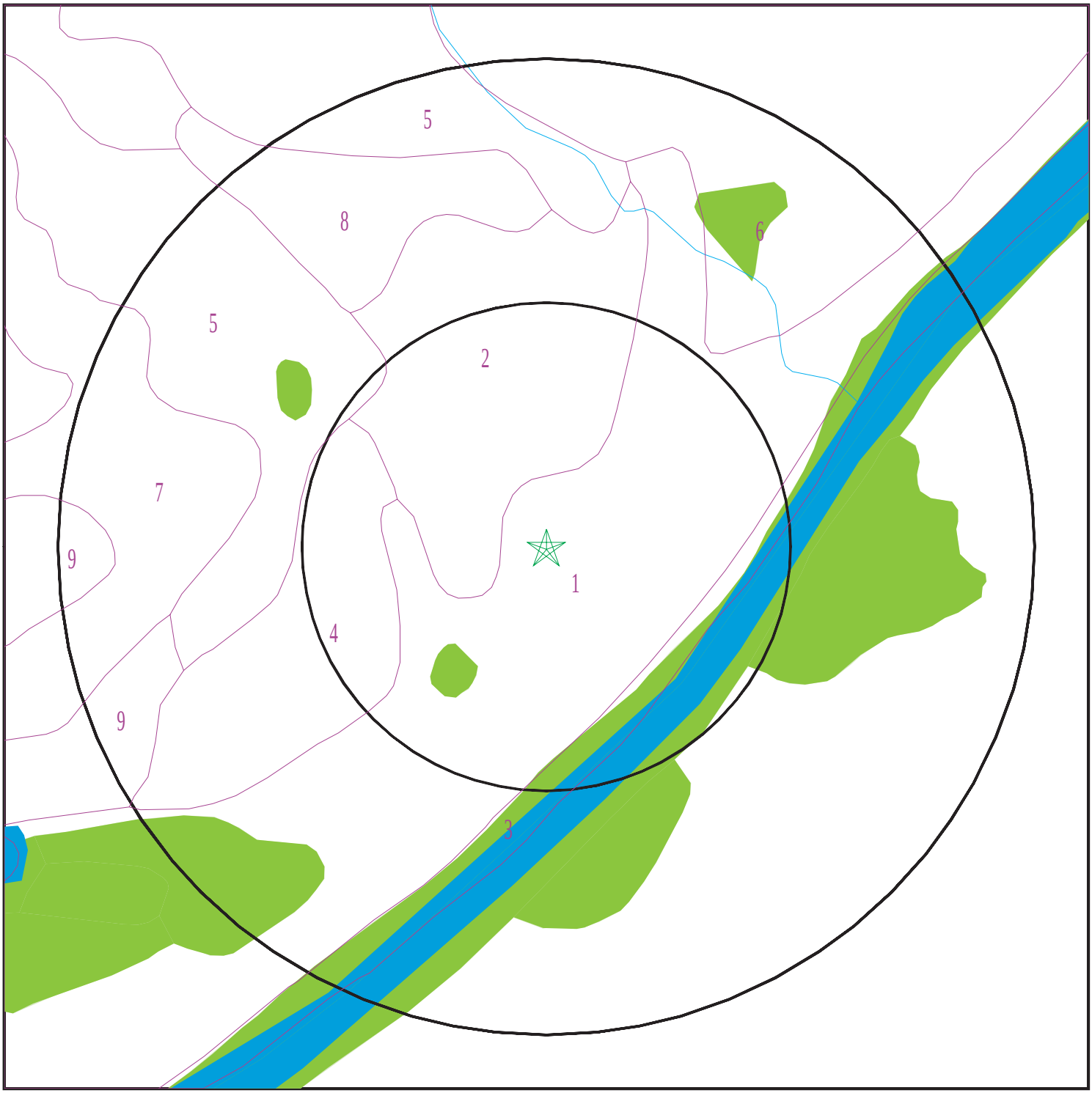
Era:	Paleozoic
System:	Pennsylvanian
Series:	Catacalastic rocks
Code:	cat *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

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).

SSURGO SOIL MAP - 7787989.1s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Plant McDonough	CLIENT:	WSP USA Environment & Infrastructure Inc.
ADDRESS:	5551 South Cobb Drive SE Atlanta GA 30339	CONTACT:	Tanya Kinnard
LAT/LONG:	33.818566 / 84.481499	INQUIRY #:	7787989.1s
		DATE:	October 09, 2024 3:56 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Toccoa

Soil Surface Texture: sandy 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: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 114 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 5.1
2	9 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 5.1

Soil Map ID: 2

Soil Component Name: Madison

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 3

Soil Component Name: Water

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:

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Madison

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

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	35 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 5

Soil Component Name: Madison

Soil Surface Texture: sandy 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

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Urban land

Soil Surface Texture: sandy 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:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 200 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 7

Soil Component Name: Madison

Soil Surface Texture: 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 8

Soil Component Name: Madison

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 9

Soil Component Name: Madison

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

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.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	USGS40000265087	1 - 2 Miles ENE
A7	USGS40000265094	1 - 2 Miles ENE
A9	USGS40000265091	1 - 2 Miles ENE
B10	USGS40000265121	1 - 2 Miles NNE
D22	USGS40000265168	1 - 2 Miles NNW
E23	USGS40000265030	1 - 2 Miles WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

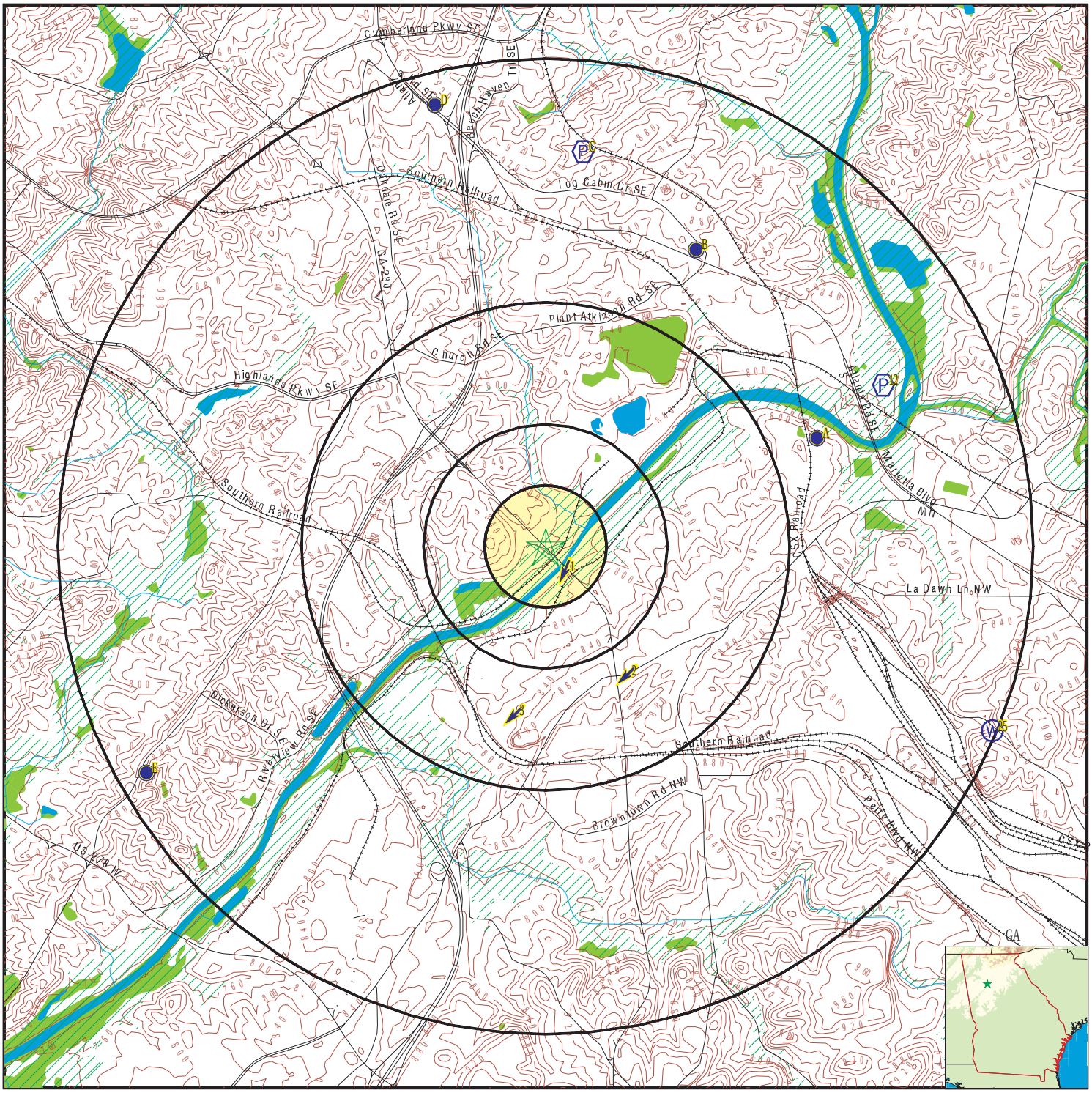
MAP ID	WELL ID	LOCATION FROM TP
12	GA1210001	1 - 2 Miles ENE
C13	GA1210038	1 - 2 Miles North
C14	GA1210000	1 - 2 Miles North
C15	GA1210006	1 - 2 Miles North
C16	GA1210037	1 - 2 Miles North
C17	GA1210002	1 - 2 Miles North
C18	GA1210039	1 - 2 Miles North
C19	GA1210007	1 - 2 Miles North
C20	GA1210005	1 - 2 Miles North

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A5	0000004656	1 - 2 Miles ENE
A6	0000004659	1 - 2 Miles ENE
A8	0000004658	1 - 2 Miles ENE
B11	0000002231	1 - 2 Miles NNE
D21	0000002233	1 - 2 Miles NNW
E24	0000002229	1 - 2 Miles WSW
25	0000004654	1 - 2 Miles ESE

PHYSICAL SETTING SOURCE MAP - 7787989.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Plant McDonough	CLIENT:	WSP USA Environment & Infrastructure Inc.
ADDRESS:	5551 South Cobb Drive SE Atlanta GA 30339	CONTACT:	Tanya Kinnard
LAT/LONG:	33.818566 / 84.481499	INQUIRY #:	7787989.1s
		DATE:	October 09, 2024 3:56 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
1 **SE** **1/8 - 1/4 Mile** **Lower**	Site ID:	0-601138	**AQUIFLOW**	**18783**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	18.82		
	Deep Water Depth:	19.04		
	Average Water Depth:	Not Reported		
	Date:	07/1991		
2 **SSE** **1/2 - 1 Mile** **Higher**	Site ID:	0-600936	**AQUIFLOW**	**18791**
	Groundwater Flow:	SW		
	Shallow Water Depth:	19		
	Deep Water Depth:	30		
	Average Water Depth:	Not Reported		
	Date:	06/1995		
3 **South** **1/2 - 1 Mile** **Higher**	Site ID:	9000676	**AQUIFLOW**	**23156**
	Groundwater Flow:	SW		
	Shallow Water Depth:	3.71		
	Deep Water Depth:	23.84		
	Average Water Depth:	Not Reported		
	Date:	7/1994		

A4
ENE
1 - 2 Miles
Higher

FED USGS **USGS40000265087**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE27	Type:	Well
Description:	SONOCO PRODUCTS	HUC:	03130002
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:	19660401
Well Depth:	500	Well Depth Units:	ft
Well Hole Depth:	500	Well Hole Depth Units:	ft

A5
ENE
1 - 2 Miles
Higher

GA WELLS **0000004656**

County code:	121	Well num:	10EE27
Remarks:	SONOCO PRODUCTS	Lat:	334926
Lon:	0842745	Latlon datum:	NAD27
Alt:	900.00	Alt datum:	NGVD29
Depth:	500	Depth to casing:	23.00
Casing dia:	Not Reported	Casing matl:	S
Depth to top:	23.00	Depth to bot:	500.00
Opening type:	X	Constr date:	196604
Discharge:	32.00	Prim use:	C
Aquifer code:	Not Reported	Edr id:	0000004656

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A6 **ENE** **1 - 2 Miles** **Lower**	**GA WELLS**	**0000004659**

County code:	121	Well num:	10EE26
Remarks:	SONOCO PRODUCTS	Lat:	334933
Lon:	0842745	Latlon datum:	NAD27
Alt:	900.00	Alt datum:	NGVD29
Depth:	500	Depth to casing:	23.00
Casing dia:	8.00	Casing matl:	S
Depth to top:	23.00	Depth to bot:	500.00
Opening type:	X	Constr date:	196603
Discharge:	30.00	Prim use:	C
Aquifer code:	Not Reported	Edr id:	0000004659

A7
ENE
1 - 2 Miles
Lower

FED USGS **USGS40000265094**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE26	Type:	Well
Description:	SONOCO PRODUCTS	HUC:	03130002
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:	19660301
Well Depth:	500	Well Depth Units:	ft
Well Hole Depth:	500	Well Hole Depth Units:	ft

A8
ENE
1 - 2 Miles
Higher

GA WELLS **0000004658**

County code:	121	Well num:	10EE25
Remarks:	SONOCO PRODUCTS	Lat:	334930
Lon:	0842742	Latlon datum:	NAD27
Alt:	900.00	Alt datum:	NGVD29
Depth:	400	Depth to casing:	33.00
Casing dia:	10.00	Casing matl:	S
Depth to top:	33.00	Depth to bot:	400.00
Opening type:	X	Constr date:	195801
Discharge:	144.00	Prim use:	C
Aquifer code:	Not Reported	Edr id:	0000004658

A9
ENE
1 - 2 Miles
Higher

FED USGS **USGS40000265091**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE25	Type:	Well
Description:	SONOCO PRODUCTS	HUC:	03130002
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:	19580101
Well Depth:	400	Well Depth Units:	ft
Well Hole Depth:	400	Well Hole Depth Units:	ft

B10
NNE
1 - 2 Miles
Higher

FED USGS **USGS40000265121**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE02	Type:	Well
Description:	W.C. HALL	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Crystalline Rocks	Aquifer Type:	Confined multiple aquifer
Construction Date:	1932	Well Depth:	79
Well Depth Units:	ft	Well Hole Depth:	79
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	49	Level reading date:	1992-06-16
Feet below surface:	29.34	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1991-10-31	Feet below surface:	29.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-05-23	Feet below surface:	30.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-10-29	Feet below surface:	31.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-05-30	Feet below surface:	29.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-10-27	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-11-28	Feet below surface:	34.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-29	Feet below surface:	33.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-10-26	Feet below surface:	32.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-11-26	Feet below surface:	32.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-07-28	Feet below surface:	32.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-31	Feet below surface:	34.34
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-05-31	Feet below surface:	26.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-01	Feet below surface:	30.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-31	Feet below surface:	29.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-10-26	Feet below surface:	32.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-25	Feet below surface:	31.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-22	Feet below surface:	32.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-21	Feet below surface:	31.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-13	Feet below surface:	30.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-29	Feet below surface:	27.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-25	Feet below surface:	30.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-23	Feet below surface:	31.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-07	Feet below surface:	32.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-18	Feet below surface:	31.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-25	Feet below surface:	29.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-21	Feet below surface:	30.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-31	Feet below surface:	30.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-01	Feet below surface:	30.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-30	Feet below surface:	31.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-28	Feet below surface:	31.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-01	Feet below surface:	31.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-27	Feet below surface:	31.33
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-09-30	Feet below surface:	31.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-25	Feet below surface:	30.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-27	Feet below surface:	30.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-28	Feet below surface:	29.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-26	Feet below surface:	29.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-02	Feet below surface:	29.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-28	Feet below surface:	30.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-23	Feet below surface:	30.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-26	Feet below surface:	30.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-21	Feet below surface:	32.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	29.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-03	Feet below surface:	26.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-14	Feet below surface:	28.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-18	Feet below surface:	29.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	26.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-24	Feet below surface:	34
Feet to sea level:	Not Reported	Note:	Not Reported

B11
NNE
1 - 2 Miles
Higher

GA WELLS **0000002231**

County code:	067	Well num:	10EE02
Remarks:	W.C. HALL	Lat:	335010
Lon:	0842815	Latlon datum:	NAD27
Alt:	858.00	Alt datum:	NGVD29
Depth:	79	Depth to casing:	40
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	40	Depth to bot:	85
Opening type:	X	Constr date:	1932

Discharge:	Not Reported	Prim use:	U
Aquifer code:	320CRSL	Edr id:	0000002231

12
ENE
1 - 2 Miles
Lower

FRDS PWS GA1210001

Epa region:	04	State:	GA
Pwsid:	GA1210001	Pwsname:	ATLANTA
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13089
Status:	Active	Retpopsrvd:	650000
Pwssvcconn:	240780	Psource longname:	Surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	PARKER, RICHARD	Contactorgname:	PARKER, RICHARD
Contactphone:	404-235-2058	Contactaddress1:	651 14TH STREET, NW
Contactaddress2:	Not Reported	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30318
Pwsactivitycode:	A		

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, pre	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	rapid mix	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	ph adjustment, pre	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	coagulation	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	flocculation	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	sedimentation	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	filtration, rapid sand	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	corrosion control
Trtprocess:	ph adjustment, post	Factypecode:	TP

Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, pre	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	rapid mix	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	ph adjustment, pre	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	coagulation	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	flocculation	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	sedimentation	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	filtration, rapid sand	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	corrosion control
Trtprocess:	ph adjustment, post	Factypecode:	TP

Pwsid:	GA1210001	Facid:	2816
Facname:	CHATTAHOOCHEE PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

PWS ID:	GA1210001	PWS name:	ATLANTA
Address:	2528 CHATTAHOOCHEE CIR., NW		
Care of:	ATLANTA WATER DEPARTMENT	City:	ATLANTA
State:	GA	Zip:	30318
Owner:	ATLANTA	Source code:	Surface water
Population:	649836		

PWS ID:	GA1210001	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:	ATLANTA
PWS type code:	C	Retail population served:	650000
Contact:	HEBBERD, CHRISTOPHER	Contact address:	651 14TH STREET
Contact address:	ATLANTA	Contact city:	GA
Contact state:	30	Contact zip:	404-602-44
Contact telephone:	Not Reported		
County:	FULTON	Source:	Surface water
Treatment Objective:	CORROSION CONTROL	Process:	PH ADJUSTMENT, POST
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, POST
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, PRE
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	COAGULATION
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FILTRATION, RAPID SAND
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FLOCCULATION
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	RAPID MIX
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	SEDIMENTATION
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	PH ADJUSTMENT, PRE
Population:	650000		
PWS ID:	GA1210001	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00649836	System name:	ATLANTA
System address:	ATLANTA WATER BUREAU	System address:	2541 CHATTAHOOCHEE CIRCLE, NW
System city:	ATLANTA	System state:	GA
System zip:	30318		
Population served:	over 100,000 Persons	Treatment:	Treated
Latitude:	334941	Longitude:	0842727
State:	GA	Latitude degrees:	33
Latitude minutes:	49	Latitude seconds:	41.0000
Longitude degrees:	84	Longitude minutes:	27
Longitude seconds:	27.0000		
Violation id:	10097	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:	07/01/1997
Cmp edt:	Not Reported		

Violation id:	10502	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	0300	Contamination Name:	IESWTR
Violation code:	38		
Violation name:	Monitoring, Turbidity (Enhanced SWTR)		
Rule code:	122	Rule name:	LT1 ESWTR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2002
Cmp edt:	01/31/2002		

Violation id:	11303	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:	11406	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:	11607	Orig code:	S
State:	GA	Violation Year:	2006
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:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	11909	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:	12511	Orig code:	S
State:	GA	Violation Year:	2010
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:	07/01/2010
Cmp edt:	Not Reported		

Violation id:	12616	Orig code:	S

State:	GA	Violation Year:	2013
Contamination code:	2950	Contamination Name:	TTHM
Violation code:	02	Violation name:	MCL, Average
Rule code:	220	Rule name:	St2 DBP
Violation measur:	0.081	Unit of measure:	MG/L
State mcl:	0.08	Cmp bdt:	04/01/2013
Cmp edt:	06/30/2013		

Violation id:	12617	Orig code:	S
State:	GA	Violation Year:	2014
Contamination code:	2950	Contamination Name:	TTHM
Violation code:	02	Violation name:	MCL, Average
Rule code:	220	Rule name:	St2 DBP
Violation measur:	0.082	Unit of measure:	MG/L
State mcl:	0.08	Cmp bdt:	01/01/2014
Cmp edt:	03/31/2014		

Violation ID:	10502	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	02/28/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	10502	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/09/2002
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	10502	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	02/28/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10502	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	05/06/2003
Enforcement Detail:	St BCA signed	Enforcement Category:	Formal

Violation ID:	10502	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/09/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	11303	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/03/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	11406	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/24/2006
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	11406	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/24/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	11406	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/15/2006
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	11607	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	07/12/2007
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	11607	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	07/09/2007
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	11909	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	07/07/2009
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	12511	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	10/05/2011
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	12616	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	05/23/2013
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	12616	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	05/23/2013
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	2/28/2002 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	2/28/2002 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	5/6/2003 0:00:00	Enforcement action:	State BCA Signed
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	7/9/2002 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	7/9/2002 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	11303
Contaminant:	Lead & Copper Rule	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2000 0:00:00	Compliance end date:	9/3/2001 0:00:00
Enforcement date:	9/3/2001 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	11406
Contaminant:	7000	Violation type:	71

Compliance start date:	7/1/2006 0:00:00	Compliance end date:	7/24/2006 0:00:00
Enforcement date:	7/24/2006 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	11406
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	7/24/2006 0:00:00
Enforcement date:	7/24/2006 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	11406
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	7/24/2006 0:00:00
Enforcement date:	8/15/2006 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	11607
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	7/9/2007 0:00:00
Enforcement date:	7/12/2007 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	11607
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	7/9/2007 0:00:00
Enforcement date:	7/9/2007 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

C13
North
1 - 2 Miles
Higher

FRDS PWS **GA1210038**

Epa region:	04	State:	GA
Pwsid:	GA1210038		
Pwsname:	ATLANTA-FULTON CO WATER RES COMMISSION		
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	0
Pwssvcconn:	2	Psource longname:	Surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CREWS, KATHY	Contactorgname:	CREWS, KATHY
Contactphone:	678-942-2791	Contactaddress1:	9750 SPRUILL RD.
Contactaddress2:	Not Reported	Contactcity:	ALPHARETTA
Contactstate:	GA	Contactzip:	30022
Pwsactivitycode:	A		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, post
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	corrosion control	Trtprocess:	ph adjustment, post

Factypecode:	TP		
Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	filtration, rapid sand
Factypecode:	TP		
Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, pre
Factypecode:	TP		
Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	ph adjustment, pre
Factypecode:	TP		
Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	rapid mix
Factypecode:	TP		
Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	coagulation
Factypecode:	TP		
Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	flocculation
Factypecode:	TP		
Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	sedimentation
Factypecode:	TP		
PWS ID:	GA1210038	PWS name:	ATLANTA-FULTON WATER RES COMM
Address:	9750 SPRUILL ROAD	Care of:	FULTON CO. WATER RESOURCES CM
City:	ALPHARETTA	State:	GA
Zip:	30022	Owner:	ATLANTA-FULTON WATER RES COMM
Source code:	Surface water	Population:	25
PWS ID:	GA1210038	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:	FULTON
Source:	Surface water	Treatment Objective:	DISINFECTION
Process:	GASEOUS CHLORINATION, POST		
Population:	0		
PWS ID:	GA1210038	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000025	System name:	ATLANTA-FULTON WATER RES COMM
System address:	ATLANTA-FULTON WATER RES COMM		

System address:	9750 SPRUILL ROAD	System city:	ALPHARETTA
System state:	GA	System zip:	30201
Population served:	Under 101 Persons	Treatment:	Treated
Latitude:	340431	Longitude:	0841739
Latitude:	335031	Longitude:	0842844
State:	GA	Latitude degrees:	33
Latitude minutes:	50	Latitude seconds:	31.0000
Longitude degrees:	84	Longitude minutes:	28
Longitude seconds:	44.0000		

C14
North
1 - 2 Miles
Higher

FRDS PWS GA1210000

Epa region:	04	State:	GA
Pwsid:	GA1210000	Pwsname:	ALPHARETTA
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Closed	Retpopsrvd:	11700
Pwssvcconn:	3392	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CHATHAM, EARL	Contactorgname:	Not Reported
Contactphone:	678-297-6200	Contactaddress1:	1790 HEMBREE ROAD
Contactaddress2:	Not Reported	Contactcity:	ALPHARETTA
Contactstate:	GA	Contactzip:	30004
Pwsactivitycode:	I		
PWS ID:	GA1210000	PWS name:	ALPHARETTA
Address:	1790 HEMBREE ROAD	Care of:	CITY OF ALPHARETTA
City:	ALPHARETTA	State:	GA
Zip:	30004	Owner:	ALPHARETTA
Source code:	Purchases surface water	Population:	8060
PWS ID:	GA1210000	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 ID:	GA1210000
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00006539
System name:	ALPHARETTA	System address:	CITY OF ALPHARETTA
System address:	TWO SOUTH MAIN STREET	System city:	ALPHARETTA
System state:	GA	System zip:	30201
Population served:	5,001 - 10,000 Persons	Treatment:	Treated
Latitude:	335031	Longitude:	0842844
Violation id:	10098	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:	20303	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2003
Cmp edt:	04/30/2003		

Violation id:	20404	Orig code:	S
State:	GA	Violation Year:	1998
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:	10/01/1998
Cmp edt:	Not Reported		

Violation id:	20505	Orig code:	S
State:	GA	Violation Year:	2004
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:	10/01/2004
Cmp edt:	10/31/2004		

Violation id:	20605	Orig code:	S
State:	GA	Violation Year:	2004
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:	11/01/2004
Cmp edt:	11/30/2004		

Violation id:	20705	Orig code:	S
State:	GA	Violation Year:	2004
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:	10/01/2004
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:	20303	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	05/29/2003
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	20303	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	05/29/2003
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20404	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	09/25/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20404	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	06/28/2004
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20404	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	02/03/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20505	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/03/2004
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20505	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/25/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20505	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/03/2004
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20605	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/07/2004
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20605	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/07/2004
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20605	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/25/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/27/2005
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/27/2005
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	05/26/2005
Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	05/05/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/24/2005
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

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C15
North
1 - 2 Miles
Higher

FRDS PWS GA1210006

Epa region:	04	State:	GA
Pwsid:	GA1210006	Pwsname:	HAPEVILLE
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	5385
Pwssvcconn:	2071	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	MARTIN, C C	Contactorgname:	MARTIN, C C
Contactphone:	404-669-2100	Contactaddress1:	POB 82311
Contactaddress2:	Not Reported	Contactcity:	HAPEVILLE
Contactstate:	GA	Contactzip:	30354-2311
Pwsactivitycode:	A		

PWS ID:	GA1210006	PWS name:	HAPEVILLE
Address:	3560 PERKINS STREET	Care of:	CITY OF HAPEVILLE
City:	HAPEVILLE	State:	GA
Zip:	30354	Owner:	HAPEVILLE
Source code:	Purchases surface water	Population:	5385

PWS ID:	GA1210006	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:	HAPEVILLE
PWS type code:	C	Retail population served:	5385
Contact:	MARTIN, C C	Contact address:	POB 82311
Contact address:	HAPEVILLE	Contact city:	GA
Contact state:	30	Contact zip:	404-669-21
Contact telephone:	Not Reported		

PWS ID:	GA1210006	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00005483	System name:	HAPEVILLE
System address:	CITY OF HAPEVILLE	System address:	POB 82311
System city:	HAPEVILLE	System state:	GA
System zip:	303542311		

Population served:	5,001 - 10,000 Persons	Treatment:	Treated

Latitude:	335031	Longitude:	0842844

Violation id:	10101	Orig code:	S
State:	GA	Violation Year:	2000
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:	07/01/2000
Cmp edt:	Not Reported		

Violation id:	10402	Orig code:	S
State:	GA	Violation Year:	2001
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:	07/01/2001
Cmp edt:	Not Reported		

Violation id:	10603	Orig code:	S
State:	GA	Violation Year:	2002
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:	07/01/2002
Cmp edt:	Not Reported		

Violation id:	10704	Orig code:	S
State:	GA	Violation Year:	2003
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:	07/01/2003
Cmp edt:	Not Reported		

Violation id:	10805	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:	10907	Orig code:	S
State:	GA	Violation Year:	2006
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:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	11008	Orig code:	S
State:	GA	Violation Year:	2007
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:	07/01/2007
Cmp edt:	Not Reported		

Violation id:	11209	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	05/01/2009
Cmp edt:	05/31/2009		

Violation id:	11612	Orig code:	S
State:	GA	Violation Year:	2011
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)

Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	11/01/2011
Cmp edt:	11/30/2011		

Violation id:	11613	Orig code:	S
State:	GA	Violation Year:	2012
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:	07/01/2012
Cmp edt:	Not Reported		

Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/02/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/31/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10402	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/18/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10402	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/02/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10603	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/11/2003
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	10603	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/18/2003
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10704	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/07/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

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:	10805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/01/2005
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

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:	10805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/09/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10907	Orig Code:	S

Enforcemnt FY: 2007
Enforcement Detail: St Compliance achieved
Enforcement Action: 09/11/2007
Enforcement Category: Resolving

Violation ID: 10907
Enforcemnt FY: 2007
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 09/01/2007

Violation ID: 11008
Enforcemnt FY: 2008
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 07/22/2008
Enforcement Category: Resolving

Violation ID: 11008
Enforcemnt FY: 2008
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 08/12/2008

Violation ID: 11209
Enforcemnt FY: 2009
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 06/03/2009

Violation ID: 11209
Enforcemnt FY: 2009
Enforcement Detail: St Public Notif received
Orig Code: S
Enforcement Action: 07/02/2009
Enforcement Category: Informal

Violation ID: 11209
Enforcemnt FY: 2009
Enforcement Detail: St Public Notif requested
Orig Code: S
Enforcement Action: 06/03/2009
Enforcement Category: Informal

Violation ID: 11612
Enforcemnt FY: 2012
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 01/30/2012

Violation ID: 11612
Enforcemnt FY: 2012
Enforcement Detail: St Public Notif requested
Orig Code: S
Enforcement Action: 01/30/2012
Enforcement Category: Informal

Violation ID: 11612
Enforcemnt FY: 2012
Enforcement Detail: St Public Notif received
Orig Code: S
Enforcement Action: 02/08/2012
Enforcement Category: Informal

Violation ID: 11613
Enforcemnt FY: 2012
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 07/11/2012
Enforcement Category: Resolving

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2001 0:00:00
Enforcement date: 7/2/2001 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10101
Violation type: 71
Compliance end date: 8/31/2001 0:00:00
Enforcement action: State Intentional no-action

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2001 0:00:00
Enforcement date: 8/31/2001 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10101
Violation type: 71
Compliance end date: 8/31/2001 0:00:00
Enforcement action: State Compliance Achieved

PWS name: HAPEVILLE
Population served: 5385

PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2002 0:00:00
Enforcement date: 7/18/2002 0:00:00
Violation measurement: Not Reported
Violation ID: 10402
Violation type: 71
Compliance end date: 7/18/2002 0:00:00
Enforcement action: State Compliance Achieved

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2002 0:00:00
Enforcement date: 7/2/2002 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10402
Violation type: 71
Compliance end date: 7/18/2002 0:00:00
Enforcement action: State Violation/Reminder Notice

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2003 0:00:00
Enforcement date: 8/11/2003 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10603
Violation type: 71
Compliance end date: 8/18/2003 0:00:00
Enforcement action: SII

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2003 0:00:00
Enforcement date: 8/18/2003 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10603
Violation type: 71
Compliance end date: 8/18/2003 0:00:00
Enforcement action: State Compliance Achieved

PWS name: HAPEVILLE
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: 5385
Violation ID: 10704
Violation type: 71
Compliance end date: 7/7/2004 0:00:00
Enforcement action: State Intentional no-action

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2004 0:00:00
Enforcement date: 7/7/2004 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10704
Violation type: 71
Compliance end date: 7/7/2004 0:00:00
Enforcement action: State Compliance Achieved

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2005 0:00:00
Enforcement date: 7/1/2005 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10805
Violation type: 71
Compliance end date: 8/9/2005 0:00:00
Enforcement action: State Intentional no-action

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2005 0:00:00
Enforcement date: 8/1/2005 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10805
Violation type: 71
Compliance end date: 8/9/2005 0:00:00
Enforcement action: SII

PWS name: HAPEVILLE
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2005 0:00:00
Enforcement date: 8/9/2005 0:00:00
Violation measurement: Not Reported
Population served: 5385
Violation ID: 10805
Violation type: 71
Compliance end date: 8/9/2005 0:00:00
Enforcement action: State Compliance Achieved

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10907
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/11/2007 0:00:00
Enforcement date:	9/1/2007 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10907
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/11/2007 0:00:00
Enforcement date:	9/11/2007 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	11008
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/22/2008 0:00:00
Enforcement date:	7/22/2008 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	11008
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/22/2008 0:00:00
Enforcement date:	8/12/2008 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

C16
North
1 - 2 Miles
Higher

FRDS PWS GA1210037

Epa region:	04	State:	GA
Pwsid:	GA1210037	Pwsname:	PROVIDENCE PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Closed	Retpopsrvd:	400
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Local_Govt
Contact:	CULBRETH, JOHN	Contactorgname:	CULBRETH, JOHN
Contactphone:	404-730-6200	Contactaddress1:	141 PRIOR ST., SW SUITE 8054
Contactaddress2:	Not Reported	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30303
Pwsactivitycode:	I		

Pwsid:	GA1210037	Facid:	1033
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1210037	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 ID:	GA1210037
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000400
System name:	PROVIDENCE PARK	System address:	PROVIDENCE PARK
System address:	13440 PROVIDENCE ROAD	System city:	ALPHARETTA
System state:	GA	System zip:	30201

Population served:	101 - 500 Persons	Treatment:	Treated
Latitude:	334456	Longitude:	0842317
Latitude:	335031	Longitude:	0842844
Violation id:	20203	Orig code:	S
State:	GA	Violation Year:	2003
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:	01/01/2003
Cmp edt:	03/31/2003		
Violation id:	20306	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2005
Cmp edt:	12/31/2005		
Violation id:	20407	Orig code:	S
State:	GA	Violation Year:	2006
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:	10/01/2006
Cmp edt:	12/31/2006		
Violation ID:	20203	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	04/16/2003
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20203	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	04/16/2003
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/21/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/21/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/15/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	06/08/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20407	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	01/19/2007
Enforcement Detail:	St Violation/Reminder Notice		

Enforcement Category:	Informal		
Violation ID:	20407	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	01/19/2007
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

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C17
North
1 - 2 Miles
Higher

FRDS PWS GA1210002

Epa region:	04	State:	GA
Pwsid:	GA1210002	Pwsname:	COLLEGE PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	20382
Pwssvcconn:	2620	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	LEE, PHIL	Contactorgname:	LEE, PHIL
Contactphone:	404-669-3757	Contactaddress1:	1886 W HARVARD AVE.
Contactaddress2:	Not Reported	Contactcity:	COLLEGE PARK
Contactstate:	GA	Contactzip:	30337
Pwsactivitycode:	A		

PWS ID:	GA1210002	PWS name:	COLLEGE PARK
Address:	1886 WEST HARVARD AVE.	Care of:	CITY OF COLLEGE PARK
City:	COLLEGE PARK	State:	GA
Zip:	30337	Owner:	COLLEGE PARK
Source code:	Purchases surface water	Population:	20645

PWS ID:	GA1210002	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:	COLLEGE PARK
PWS type code:	C	Retail population served:	20382
Contact:	HOWARD, JR., JESSIE	Contact address:	POB 87137
Contact address:	COLLEGE PARK	Contact city:	GA
Contact state:	30	Contact zip:	404-669-37
Contact telephone:	Not Reported		

PWS ID:	GA1210002	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00020457	System name:	COLLEGE PARK
System address:	CITY OF COLLEGE PARK	System address:	1886 WEST HARVARD AVE.
System city:	COLLEGE PARK	System state:	GA
System zip:	30337		

Population served:	10,001 - 50,000 Persons	Treatment:	Treated

Latitude:	335031	Longitude:	0842844

Violation id:	10301	Orig code:	S
State:	GA	Violation Year:	2001
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:	07/01/2001
Cmp edt:	Not Reported		

Violation id:	11407	Orig code:	S

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State: GA
Contamination code: 5000
Violation code: 52
Rule code: 350
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported
Violation Year: 2006
Contamination Name: Lead and Copper Rule
Violation name: Follow-up Or Routine LCR Tap M/R
Rule name: LCR
Unit of measure: Not Reported
Cmp bdt: 10/01/2006

Violation ID: 10301
Enforcemnt FY: 2001
Enforcement Detail: St Intentional no-action
Orig Code: S
Enforcement Action: 07/02/2001
Enforcement Category: Resolving

Violation ID: 10301
Enforcemnt FY: 2001
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 08/10/2001
Enforcement Category: Resolving

Violation ID: 11407
Enforcemnt FY: 2007
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 03/02/2007

Violation ID: 11407
Enforcemnt FY: 2010
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 09/14/2010
Enforcement Category: Resolving

Violation ID: 11407
Enforcemnt FY: 2007
Enforcement Detail: St Public Notif requested
Orig Code: S
Enforcement Action: 03/02/2007
Enforcement Category: Informal

PWS name: COLLEGE PARK
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2001 0:00:00
Enforcement date: 7/2/2001 0:00:00
Violation measurement: Not Reported
Population served: 20382
Violation ID: 10301
Violation type: 71
Compliance end date: 8/10/2001 0:00:00
Enforcement action: State Intentional no-action

PWS name: COLLEGE PARK
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2001 0:00:00
Enforcement date: 8/10/2001 0:00:00
Violation measurement: Not Reported
Population served: 20382
Violation ID: 10301
Violation type: 71
Compliance end date: 8/10/2001 0:00:00
Enforcement action: State Compliance Achieved

PWS name: COLLEGE PARK
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2006 0:00:00
Enforcement date: 3/2/2007 0:00:00
Violation measurement: Not Reported
Population served: 20382
Violation ID: 11407
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 12/31/2025 0:00:00
Enforcement action: State Violation/Reminder Notice

PWS name: COLLEGE PARK
PWS type code: C
Contaminant: Lead & Copper Rule
Compliance start date: 10/1/2006 0:00:00
Enforcement date: 3/2/2007 0:00:00
Violation measurement: Not Reported
Population served: 20382
Violation ID: 11407
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 12/31/2025 0:00:00
Enforcement action: State Public Notif Requested

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C18
North
1 - 2 Miles
Higher | **FRDS PWS** | **GA1210039**

Epa region:	04	State:	GA
Pwsid:	GA1210039	Pwsname:	CHAMPIONS CLUB OF ATLANTA
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Closed	Retpopsrvd:	255
Pwssvcconn:	2	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	MELNIK, STEVE	Contactorgname:	Not Reported
Contactphone:	904-356-1000	Contactaddress1:	111 RIVERSIDE AVE., SUITE 330
Contactaddress2:	Not Reported	Contactcity:	JACKSONVILLE
Contactstate:	FL	Contactzip:	33202
Pwsactivitycode:	I		

Pwsid:	GA1210039	Facid:	1035
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1210039	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 ID:	GA1210039
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000025
System name:	CHAMPIONS CLUB-HOPEWELL DOWNS		
System address:	CHAMPIONS CLUB-HOPEWELL DOWNS		
System address:	15135 HOPEWELL ROAD	System city:	ALPHARETTA
System state:	GA	System zip:	30201

Population served:	101 - 500 Persons	Treatment:	Treated

Latitude:	340431	Longitude:	0841739

Latitude:	335031	Longitude:	0842844

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200001	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	010192	Violation end date:	033192
Violation period (months):	003	Violation awareness date:	Not Reported
Major violator:	Yes	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

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:	Monitoring, Routine Major (TCR)		
Violation start date:	040192	Violation end date:	063092
Violation period (months):	003	Violation awareness date:	Not Reported
Major violator:	Yes	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

C19
North
1 - 2 Miles
Higher

FRDS PWS GA1210007

Epa region:	04	State:	GA
Pwsid:	GA1210007	Pwsname:	MOUNTAIN PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	798
Pwssvcconn:	307	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	SCHMIDT, BILL	Contactorgname:	SCHMIDT, BILL
Contactphone:	770-993-4231	Contactaddress1:	118 LAKE SHORE DRIVE
Contactaddress2:	Not Reported	Contactcity:	MOUNTAIN PARK
Contactstate:	GA	Contactzip:	30075
Pwsactivitycode:	A		

PWS ID:	GA1210007	PWS name:	MOUNTAIN PARK
Address:	100 MOUNTAIN PARK ROAD	Care of:	CITY OF MOUNTAIN PARK
City:	ROSWELL	State:	GA
Zip:	30075	Owner:	MOUNTAIN PARK
Source code:	Purchases surface water	Population:	679

PWS ID:	GA1210007	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:	MOUNTAIN PARK
PWS type code:	C	Retail population served:	798
Contact:	SCHMIDT, BILL	Contact address:	118 LAKE SHORE DRIVE
Contact address:	MOUNTAIN PARK	Contact city:	GA
Contact state:	30	Contact zip:	770-993-42
Contact telephone:	Not Reported		

PWS ID:	GA1210007	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000679	System name:	MOUNTAIN PARK
System address:	CITY OF MOUNTAIN PARK	System address:	100 MOUNTAIN PARK ROAD
System city:	ROSWELL	System state:	GA
System zip:	30075		

Population served:	501 - 1,000 Persons	Treatment:	Treated

Latitude:	335031	Longitude:	0842844

Violation id:	1005	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:	1107	Orig code:	S
State:	GA	Violation Year:	2006
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:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	1408	Orig code:	S
State:	GA	Violation Year:	2007
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:	07/01/2007
Cmp edt:	Not Reported		

Violation id:	1613	Orig code:	S
State:	GA	Violation Year:	2012
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:	07/01/2012
Cmp edt:	Not Reported		

Violation id:	1614	Orig code:	S
State:	GA	Violation Year:	2013
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:	07/01/2013
Cmp edt:	Not Reported		

Violation id:	201	Orig code:	S
State:	GA	Violation Year:	2000
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:	07/01/2000
Cmp edt:	Not Reported		

Violation id:	302	Orig code:	S
State:	GA	Violation Year:	2001
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:	07/01/2001
Cmp edt:	Not Reported		

Violation id:	603	Orig code:	S
State:	GA	Violation Year:	2002
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:	07/01/2002
Cmp edt:	Not Reported		

Violation id:	804	Orig code:	S
State:	GA	Violation Year:	2003
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:	07/01/2003
Cmp edt:	Not Reported		

Violation id:	905	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2005
Cmp edt:	06/30/2005		

Violation ID:	1005	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/29/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1005	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/01/2005
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1107	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	09/01/2007
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1107	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	10/05/2007
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1107	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	09/10/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1408	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	09/10/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1408	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/12/2008
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1613	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	08/27/2012
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1613	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	10/18/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1614	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	07/02/2013
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1614	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	08/27/2013

Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/02/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/07/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	302	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/23/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	302	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	08/08/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	603	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/19/2003
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	603	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/11/2003
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	804	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	09/08/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	804	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	08/20/2004
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	905	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/21/2005
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	905	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/21/2005
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	1005
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	8/29/2005 0:00:00
Enforcement date:	8/1/2005 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		
PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	1005
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	8/29/2005 0:00:00
Enforcement date:	8/29/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	1107

Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/10/2008 0:00:00
Enforcement date:	10/5/2007 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	1107
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/10/2008 0:00:00
Enforcement date:	9/1/2007 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	1107
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/10/2008 0:00:00
Enforcement date:	9/10/2008 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	1408
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	9/10/2008 0:00:00
Enforcement date:	8/12/2008 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	1408
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	9/10/2008 0:00:00
Enforcement date:	9/10/2008 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	201
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	9/7/2001 0:00:00
Enforcement date:	7/2/2001 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	201
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	9/7/2001 0:00:00
Enforcement date:	9/7/2001 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	302
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	8/8/2002 0:00:00
Enforcement date:	7/23/2002 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	302
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	8/8/2002 0:00:00
Enforcement date:	8/8/2002 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798

PWS type code:	C	Violation ID:	603
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	8/19/2003 0:00:00
Enforcement date:	8/11/2003 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	603
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	8/19/2003 0:00:00
Enforcement date:	8/19/2003 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	804
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	9/8/2004 0:00:00
Enforcement date:	8/20/2004 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	804
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	9/8/2004 0:00:00
Enforcement date:	9/8/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	905
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	6/1/2005 0:00:00	Compliance end date:	6/30/2005 0:00:00
Enforcement date:	7/21/2005 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	905
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	6/1/2005 0:00:00	Compliance end date:	6/30/2005 0:00:00
Enforcement date:	7/21/2005 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

C20
North
1 - 2 Miles
Higher

FRDS PWS GA1210005

Epa region:	04	State:	GA
Pwsid:	GA1210005	Pwsname:	NORTH FULTON COUNTY
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	172533
Pwssvcconn:	70291	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	PERSON, PATRICK	Contactorgname:	PERSON, PATRICK
Contactphone:	404-612-9429	Contactaddress1:	1030 MARIETTA HWY
Contactaddress2:	Not Reported	Contactcity:	ROSWELL
Contactstate:	GA	Contactzip:	30075
Pwsactivitycode:	A		

PWS ID:	GA1210005	PWS name:	NORTH FULTON COUNTY
Address:	141 PRYOR ST. SW SUITE 6001		

Care of:	DEPT. OF PUBLIC WORKS	City:	ATLANTA
State:	GA	Zip:	30303
Owner:	NORTH FULTON COUNTY	Source code:	Purchases surface water
Population:	106600		

PWS ID:	GA1210005	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:	NORTH FULTON COUNTY
PWS type code:	C	Retail population served:	172533
Contact:	BAH, MARIE	Contact address:	1030 MARIETTA HWY.
Contact address:	ROSWELL	Contact city:	GA
Contact state:	30	Contact zip:	404-612-02
Contact telephone:	Not Reported		

PWS ID:	GA1210005	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00060000	System name:	NORTH FULTON COUNTY
System address:	NORTH FULTON WATER SYSTEM	System address:	1030 MARIETTA HIGHWAY
System city:	ROSWELL	System state:	GA
System zip:	300754732		

Population served:	50,001 - 75,000 Persons	Treatment:	Treated

Latitude:	335031	Longitude:	0842844

Latitude:	335031	Longitude:	0842844

Latitude:	335031	Longitude:	0842844

Latitude:	335031	Longitude:	0842844

Violation id:	10102	Orig code:	S
State:	GA	Violation Year:	2002
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:	07/01/2002
Cmp edt:	Not Reported		

Violation id:	10304	Orig code:	S
State:	GA	Violation Year:	2002
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:	10/01/2002
Cmp edt:	Not Reported		

Violation id:	10404	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:	10606	Orig code:	S
State:	GA	Violation Year:	2006
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:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	10808	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:	10102	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/18/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10102	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/23/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10304	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	09/22/2003
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10304	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	02/03/2003
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10404	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/02/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10404	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/01/2004
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	10606	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/21/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10606	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/21/2006
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	10808	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/14/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10808	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/12/2008
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10102
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	7/18/2002 0:00:00

Enforcement date: 7/18/2002 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10102
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2002 0:00:00
Compliance end date: 7/18/2002 0:00:00
Enforcement date: 7/23/2002 0:00:00
Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10304
Contaminant: Lead & Copper Rule
Violation type: Follow-up and Routine Tap Sampling
Compliance start date: 10/1/2002 0:00:00
Compliance end date: 9/22/2003 0:00:00
Enforcement date: 2/3/2003 0:00:00
Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10304
Contaminant: Lead & Copper Rule
Violation type: Follow-up and Routine Tap Sampling
Compliance start date: 10/1/2002 0:00:00
Compliance end date: 9/22/2003 0:00:00
Enforcement date: 9/22/2003 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10404
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2004 0:00:00
Compliance end date: 7/2/2004 0:00:00
Enforcement date: 7/1/2004 0:00:00
Enforcement action: State Intentional no-action
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10404
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2004 0:00:00
Compliance end date: 7/2/2004 0:00:00
Enforcement date: 7/2/2004 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10606
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2006 0:00:00
Compliance end date: 7/21/2006 0:00:00
Enforcement date: 7/21/2006 0:00:00
Enforcement action: State Intentional no-action
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10606
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2006 0:00:00
Compliance end date: 7/21/2006 0:00:00
Enforcement date: 7/21/2006 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10808
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2008 0:00:00
Compliance end date: 8/14/2008 0:00:00
Enforcement date: 8/12/2008 0:00:00
Enforcement action: SII
Violation measurement: Not Reported

PWS name: NORTH FULTON COUNTY
Population served: 172533
PWS type code: C
Violation ID: 10808
Contaminant: 7000
Violation type: 71

Compliance start date:	7/1/2008 0:00:00	Compliance end date:	8/14/2008 0:00:00
Enforcement date:	8/14/2008 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

D21
NNW
1 - 2 Miles
Higher

GA WELLS **0000002233**

County code:	067	Well num:	10EE39
Remarks:	BP GAS STN S ATLANTA ROAD	Lat:	335041
Lon:	0842922	Latlon datum:	NAD27
Alt:	930	Alt datum:	NGVD29
Depth:	39	Depth to casing:	29
Casing dia:	2	Casing matl:	P
Depth to top:	29	Depth to bot:	39
Opening type:	P	Constr date:	19900724
Discharge:	Not Reported	Prim use:	U
Aquifer code:	110SPRL	Edr id:	0000002233

D22
NNW
1 - 2 Miles
Higher

FED USGS **USGS40000265168**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE39	Type:	Well
Description:	BP GAS STN S ATLANTA ROAD	HUC:	03130001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Saprolite	Aquifer Type:	Unconfined single aquifer
Construction Date:	19900724	Well Depth:	39
Well Depth Units:	ft	Well Hole Depth:	39.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1995-06-27
Feet below surface:	29.62	Feet to sea level:	Not Reported
Note:	Not Reported		

E23
WSW
1 - 2 Miles
Higher

FED USGS **USGS40000265030**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	09EE06	Type:	Well
Description:	CLAUDE W. McAteer	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Saprolite	Aquifer Type:	Unconfined single aquifer
Construction Date:	1940	Well Depth:	38
Well Depth Units:	ft	Well Hole Depth:	38
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1995-06-01

Feet below surface:	28.95	Feet to sea level:	Not Reported
Note:	Not Reported		

E24
WSW
1 - 2 Miles
Higher

GA WELLS **0000002229**

County code:	067	Well num:	09EE06
Remarks:	CLAUDE W. McAteer	Lat:	334818
Lon:	0843036	Latlon datum:	NAD27
Alt:	880	Alt datum:	NGVD29
Depth:	38	Depth to casing:	Not Reported
Casing dia:	30	Casing matl:	B
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1940
Discharge:	Not Reported	Prim use:	H
Aquifer code:	110SPRL	Edr id:	0000002229

25
ESE
1 - 2 Miles
Higher

GA WELLS **0000004654**

County code:	121	Well num:	10EE36
Remarks:	TREMONT TMPL BPTST CH SPG	Lat:	334827
Lon:	0842659	Latlon datum:	NAD27
Alt:	925	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	5	Prim use:	U
Aquifer code:	320CRSL	Edr id:	0000004654

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for COBB County: 1

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: 30080

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.067 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.300 pCi/L	67%	33%	0%

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

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APPENDIX E

Statistical Analyses

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 McDonough Ash Pond (AP-2,3,4)
September 2024 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2024 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of groundwater data for Georgia Power Company's Plant McDonough AP-2,3,4. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for 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 wells:** DGWA-53, DGWA-70A, DGWA-71
- **Downgradient wells:** DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15,

DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, and DGWC-48

- **Assessment Wells:** B-56, B-62, B-63, B-66, B-77, B-82, B-83, B-88, B-92, B-93, B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-111D, B-120D, B-122D, and B-125D

The assessment wells were installed at various times during 2016-2020 as follows:

- **2016** - B-56, B-62, B-63, and B-66
- **2019** - B-77, B-82, B-83, B-88, B-92, and B-93
- **2020** – B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, and B-111D
- **2021** – B-120D
- **2022** – B-122D
- **2023** – B-125D

Note that well B-109D was classified as an assessment well previously but has been redesignated as a piezometer and, therefore, is not included in the analysis. Per request of Georgia Power Company, both Appendix III and Appendix IV constituents among downgradient wells will be evaluated using interwell prediction limits and confidence intervals, respectively, when a minimum of 8 samples is available. Additionally, assessment wells with a minimum of 4 samples is evaluated using confidence intervals for Appendix IV constituents. All downgradient and assessment wells have sufficient samples except for assessment well B-125D, which only has sufficient samples to be evaluated with confidence intervals for fluoride and lithium. Data from this well are plotted on time series and box plots, and will be evaluated for all other Appendix IV constituents when the minimum sample requirement has been met.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology prepared in Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The Coal Combustion Residuals (CCR) program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 containing 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).

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 and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that 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. Non-detects are handled as follows:

- 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 screening for any new outliers. In some cases, earlier data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Although 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 representative of the current background data population. Suspected outliers were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several 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 possible trend. If future values do not remain at similar concentrations, these values may 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 laboratory's 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.

Of the outliers identified by Tukey's method, only a few of these values were flagged in the database as all other values are similar to other measurements. Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. 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 can be identified by visual inspection, a quantification of the trend and its statistical 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 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, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any 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 were included with the previous screening and showed two statistically significant decreasing trends for the Appendix III parameters. The only significant trend identified in the upgradient wells was a statistically significant decreasing trend for sulfate in well DGWA-71. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

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 are not representative of the current background data population; 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, which indicated intrawell analyses may be most appropriate for these parameters. 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.

Statistical Analysis of Appendix III Parameters – September 2024

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2024 (Figure D). Background (upgradient) well data were reassessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 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 a resample confirms 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. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several

prediction limit exceedances were noted for Appendix III parameters. A summary table of the interwell prediction limits follows this letter.

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 to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. Similar patterns that are present in both upgradient and downgradient wells are an indication of variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends

- Boron: DGWC-11 and DGWC-17
- Calcium: DGWC-5, DGWC-19, DGWC-21, and DGWC-23
- Chloride: DGWA-71 (upgradient), DGWC-5, DGWC-9, and DGWC-20
- pH: DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-4, DGWC-5, DGWC-11, DGWC-17, DGWC-19, and DGWC-23

Decreasing trends

- Boron: DGWA-53 (upgradient), DGWC-2, DGWC-8, DGWC-9, DGWC-12, DGWC-13, DGWC-19, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWA-53 (upgradient), DGWC-9, and DGWC-48
- Chloride: DGWA-53 (upgradient), DGWC-19, DGWC-21, DGWC-22, DGWC-23, and DGWC-42
- Fluoride: DGWC-47 and DGWC-48
- pH: DGWC-9, DGWC-20, DGWC-42, and DGWC-47
- Sulfate: DGWA-71 (upgradient), DGWC-2, DGWC-8, DGWC-12, DGWC-13, DGWC-15, DGWC-21, DGWC-42, DGWC-47, and DGWC-48
- TDS: DGWA-53 (upgradient), DGWC-12, DGWC-22, DGWC-47, and DGWC-48

Statistical Analysis of Appendix IV Parameters – September 2024

For Appendix IV parameters, confidence intervals for each downgradient and assessment well/constituent pair with four or more samples were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. As mentioned above, downgradient and assessment well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No additional values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Trend Test Analysis

Earlier concentrations collected from March 2017 through March 2018 during baseline sampling for cobalt at upgradient well DGWA-53 were noted to be elevated compared to current groundwater quality conditions for this well. The Sen's Slope/Mann-Kendall trend test was used to determine whether concentrations have statistically significantly decreased at the 95% confidence level (Figure F). A statistically significant decreasing trend was identified; therefore, the earlier concentrations were truncated from the record in order to reduce the magnitude of the trend (USEPA Unified Guidance, 2009, Chapter 5). The resulting statistical limit is representative of current groundwater quality conditions and is more conservative (i.e., lower) from a regulatory perspective. A list of the date ranges used for cobalt at upgradient well DGWA-53 follows this report.

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2024 for Appendix IV constituents (Figure G). 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 H).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure I). Note that confidence intervals require a minimum of 4 samples for assessment wells, and in some cases, the assessment wells had insufficient samples at this time.

The Sanitas software was used to calculate 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. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. Nonparametric confidence intervals were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Confidence intervals were compared to the GWPS prepared as described above. Only when the entire confidence interval is above a GWPS is the downgradient 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. A summary of the confidence

intervals follows this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, and B-93
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-92, B-93, and B-104D
- Combined Radium 226 + 228: B-104D and B-122D
- Lithium: DGWC-47, DGWC-48, and B-120D

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 J). 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. All available data for 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. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Cobalt: DGWA-71 (upgradient), DGWC-9, DGWC-20, and B-56

Decreasing

- Beryllium: DGWA-70A (upgradient), DGWC-47, and DGWC-48
- Cobalt: DGWA-53 (upgradient), DGWC-8, DGWC-10, DGWC-47, DGWC-48, and B-93
- Combined Radium 226 + 228: DGWA-53 (upgradient)
- Lithium: DGWC-47, DGWC-48, and B-120D

Note that while the trend test identified a statistically significant increasing trend for cobalt in upgradient well DGWA-71, the slope is displayed as zero which represents the median slopes of all the possible pairwise slopes. The zero median slope results from the

large number of non-detects in the record, and the positive test statistic results from a few recorded trace values in the earlier part of the record.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McDonough AP-2,3,4. 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

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 12/10/2024 3:48 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Antimony (mg/L)
B-107D, B-108D, B-66, B-82, B-83, B-88, B-92, B-97, DGWC-11, DGWC-13, DGWC-22, DGWC-42, DGWC-9

Arsenic (mg/L)
B-100, B-102D, B-122D, B-88, B-98, DGWC-13, DGWC-21, DGWC-23

Beryllium (mg/L)
B-111D, DGWC-14, DGWC-2

Cadmium (mg/L)
B-104D, B-107D, B-111D, B-122D, B-62, B-77, DGWC-14

Chromium (mg/L)
B-102D, B-107D, B-108D, B-111D, B-120D, B-122D, B-66, B-92, B-97, DGWC-14

Cobalt (mg/L)
DGWC-14

Lead (mg/L)
B-106D, B-122D, B-62, B-66, B-92, B-97, DGWC-22

Mercury (mg/L)
B-102D, B-106D, B-120D, B-122D, B-62, B-63, B-77, B-83, B-97, B-98, DGWC-47

Molybdenum (mg/L)
B-106D, B-107D, B-62, B-63, B-77, B-83, B-92, B-93, B-97, DGWC-10, DGWC-11, DGWC-12, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9

Selenium (mg/L)
B-102D, B-106D, B-107D, B-122D, B-62, B-63, B-66, DGWC-11, DGWC-21, DGWC-23, DGWC-42

Thallium (mg/L)
B-100, B-101D, B-102D, B-106D, B-107D, B-108D, B-111D, B-120D, B-122D, B-62, B-63, B-77, B-93, B-97, B-98, DGWC-11, DGWC-13, DGWC-15, DGWC-2, DGWC-21, DGWC-23

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 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)	DGWC-11	0.13	n/a	9/9/2024	1.5	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/5/2024	1.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/5/2024	0.51	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/5/2024	1.3	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/10/2024	0.85	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/5/2024	2.3	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/9/2024	0.34	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/5/2024	2.6	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/4/2024	5.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/9/2024	4.1	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/5/2024	5.1	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/6/2024	3.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/5/2024	1.1	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	9/5/2024	0.15	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/10/2024	0.45	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/6/2024	2.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/9/2024	0.57	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	9/11/2024	0.48	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40.3	n/a	9/11/2024	198	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40.3	n/a	9/9/2024	61.2	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40.3	n/a	9/5/2024	106	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40.3	n/a	9/5/2024	110	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40.3	n/a	9/4/2024	81.9	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40.3	n/a	9/9/2024	55.5	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40.3	n/a	9/5/2024	105	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40.3	n/a	9/6/2024	219	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40.3	n/a	9/10/2024	53.8	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40.3	n/a	9/6/2024	126	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40.3	n/a	9/11/2024	43.2	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	9.4	n/a	9/11/2024	11.6	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-11	9.4	n/a	9/9/2024	11	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-13	9.4	n/a	9/5/2024	11.5	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-15	9.4	n/a	9/5/2024	20.5	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-17	9.4	n/a	9/10/2024	18.3	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-19	9.4	n/a	9/5/2024	15.6	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-20	9.4	n/a	9/5/2024	26.2	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-21	9.4	n/a	9/4/2024	18	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-22	9.4	n/a	9/9/2024	16.3	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-23	9.4	n/a	9/5/2024	11.7	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-42	9.4	n/a	9/5/2024	17.8	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-5	9.4	n/a	9/6/2024	12.4	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-8	9.4	n/a	9/9/2024	10.2	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-9	9.4	n/a	9/11/2024	10.4	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/11/2024	1.6	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	9/5/2024	1.8	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	9/5/2024	0.48	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	9/10/2024	0.43	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	9/11/2024	0.81	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	9/11/2024	4.58	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	9/10/2024	5.01	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	9/5/2024	4.79	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	9/5/2024	4.22	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	9/5/2024	5.05	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	9/5/2024	4.19	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	9/10/2024	4.35	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	9/6/2024	4.74	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	9/9/2024	5.26	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-9	6.69	5.43	9/11/2024	3.96	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-10	49	n/a	9/11/2024	727	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-11	49	n/a	9/9/2024	229	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-12	49	n/a	9/5/2024	148	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-13	49	n/a	9/5/2024	94.8	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-15	49	n/a	9/5/2024	123	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-17	49	n/a	9/10/2024	261	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-19	49	n/a	9/5/2024	376	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-2	49	n/a	9/9/2024	89.1	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-20	49	n/a	9/5/2024	698	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-21	49	n/a	9/4/2024	253	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-22	49	n/a	9/9/2024	211	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-23	49	n/a	9/5/2024	303	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-4	49	n/a	9/6/2024	708	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-42	49	n/a	9/5/2024	356	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-47	49	n/a	9/5/2024	136	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-48	49	n/a	9/10/2024	248	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-5	49	n/a	9/6/2024	558	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-8	49	n/a	9/9/2024	103	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-9	49	n/a	9/11/2024	281	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	250.1	n/a	9/11/2024	1190	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	250.1	n/a	9/9/2024	444	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	250.1	n/a	9/5/2024	331	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	250.1	n/a	9/5/2024	283	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	250.1	n/a	9/10/2024	476	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	250.1	n/a	9/5/2024	683	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	250.1	n/a	9/5/2024	1220	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	250.1	n/a	9/4/2024	537	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	250.1	n/a	9/9/2024	443	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	250.1	n/a	9/5/2024	632	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	250.1	n/a	9/6/2024	1290	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	250.1	n/a	9/5/2024	522	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	250.1	n/a	9/5/2024	324	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	250.1	n/a	9/10/2024	469	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	250.1	n/a	9/6/2024	977	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	250.1	n/a	9/11/2024	458	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 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)	DGWC-10	0.13	n/a	9/11/2024	0.18J	No	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-11**	**0.13**	**n/a**	**9/9/2024**	**1.5**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-12**	**0.13**	**n/a**	**9/5/2024**	**1.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-13**	**0.13**	**n/a**	**9/5/2024**	**0.51**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-14	0.13	n/a	9/10/2024	0.12	No	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-15**	**0.13**	**n/a**	**9/5/2024**	**1.3**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-17**	**0.13**	**n/a**	**9/10/2024**	**0.85**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-19**	**0.13**	**n/a**	**9/5/2024**	**2.3**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-2**	**0.13**	**n/a**	**9/9/2024**	**0.34**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-20**	**0.13**	**n/a**	**9/5/2024**	**2.6**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-21**	**0.13**	**n/a**	**9/4/2024**	**5.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-22**	**0.13**	**n/a**	**9/9/2024**	**4.1**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-23**	**0.13**	**n/a**	**9/5/2024**	**5.1**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-4**	**0.13**	**n/a**	**9/6/2024**	**3.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-42**	**0.13**	**n/a**	**9/5/2024**	**1.1**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-47**	**0.13**	**n/a**	**9/5/2024**	**0.15**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-48**	**0.13**	**n/a**	**9/10/2024**	**0.45**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-5**	**0.13**	**n/a**	**9/6/2024**	**2.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-8**	**0.13**	**n/a**	**9/9/2024**	**0.57**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-9**	**0.13**	**n/a**	**9/11/2024**	**0.48**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-10**	**40.3**	**n/a**	**9/11/2024**	**198**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-11**	**40.3**	**n/a**	**9/9/2024**	**61.2**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-12	40.3	n/a	9/5/2024	32.9	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40.3	n/a	9/5/2024	28.9	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40.3	n/a	9/10/2024	11.1	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40.3	n/a	9/5/2024	30.2	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40.3	n/a	9/10/2024	16.4	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-19**	**40.3**	**n/a**	**9/5/2024**	**106**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-2	40.3	n/a	9/9/2024	31.6	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-20**	**40.3**	**n/a**	**9/5/2024**	**110**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-21**	**40.3**	**n/a**	**9/4/2024**	**81.9**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-22**	**40.3**	**n/a**	**9/9/2024**	**55.5**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-23**	**40.3**	**n/a**	**9/5/2024**	**105**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-4**	**40.3**	**n/a**	**9/6/2024**	**219**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-42	40.3	n/a	9/5/2024	33	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40.3	n/a	9/5/2024	23.8	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-48**	**40.3**	**n/a**	**9/10/2024**	**53.8**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-5**	**40.3**	**n/a**	**9/6/2024**	**126**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-8	40.3	n/a	9/9/2024	23.4	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-9**	**40.3**	**n/a**	**9/11/2024**	**43.2**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-10**	**9.4**	**n/a**	**9/11/2024**	**11.6**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-11**	**9.4**	**n/a**	**9/9/2024**	**11**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-12	9.4	n/a	9/5/2024	7.9	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-13**	**9.4**	**n/a**	**9/5/2024**	**11.5**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-14	9.4	n/a	9/10/2024	3.8	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-15**	**9.4**	**n/a**	**9/5/2024**	**20.5**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-17**	**9.4**	**n/a**	**9/10/2024**	**18.3**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-19**	**9.4**	**n/a**	**9/5/2024**	**15.6**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-2	9.4	n/a	9/9/2024	2.1	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-20**	**9.4**	**n/a**	**9/5/2024**	**26.2**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-21**	**9.4**	**n/a**	**9/4/2024**	**18**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-22**	**9.4**	**n/a**	**9/9/2024**	**16.3**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-23**	**9.4**	**n/a**	**9/5/2024**	**11.7**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-4	9.4	n/a	9/6/2024	7.5	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-42**	**9.4**	**n/a**	**9/5/2024**	**17.8**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-47	9.4	n/a	9/5/2024	3.4	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-48	9.4	n/a	9/10/2024	5.8	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-5**	**9.4**	**n/a**	**9/6/2024**	**12.4**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-8**	**9.4**	**n/a**	**9/9/2024**	**10.2**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-9**	**9.4**	**n/a**	**9/11/2024**	**10.4**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-10**	**0.42**	**n/a**	**9/11/2024**	**1.6**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-11	0.42	n/a	9/9/2024	0.056J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	9/5/2024	0.064J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	9/5/2024	0.079J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	9/10/2024	0.051J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	9/5/2024	0.061J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	9/10/2024	0.11	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	9/5/2024	0.18	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-2	0.42	n/a	9/9/2024	0.093J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-20**	**0.42**	**n/a**	**9/5/2024**	**1.8**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-21	0.42	n/a	9/4/2024	0.065J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-22	0.42	n/a	9/9/2024	0.067J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	9/5/2024	0.089J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	9/6/2024	0.051J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	9/5/2024	0.1ND	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-47**	**0.42**	**n/a**	**9/5/2024**	**0.48**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-48**	**0.42**	**n/a**	**9/10/2024**	**0.43**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-5	0.42	n/a	9/6/2024	0.23	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	9/9/2024	0.076J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-9**	**0.42**	**n/a**	**9/11/2024**	**0.81**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-10**	**6.69**	**5.43**	**9/11/2024**	**4.58**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-11	6.69	5.43	9/9/2024	5.53	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	9/5/2024	5.79	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	9/5/2024	5.58	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	9/10/2024	5.68	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	9/5/2024	5.79	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-17**	**6.69**	**5.43**	**9/10/2024**	**5.01**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.69**	**5.43**	**9/5/2024**	**4.79**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-2	6.69	5.43	9/9/2024	6.07	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-20**	**6.69**	**5.43**	**9/5/2024**	**4.22**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-21	6.69	5.43	9/4/2024	5.62	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	9/9/2024	5.6	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	9/5/2024	6.11	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	9/6/2024	5.65	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-42**	**6.69**	**5.43**	**9/5/2024**	**5.05**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.69**	**5.43**	**9/5/2024**	**4.19**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.69**	**5.43**	**9/10/2024**	**4.35**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.69**	**5.43**	**9/6/2024**	**4.74**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-8**	**6.69**	**5.43**	**9/9/2024**	**5.26**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-9**	**6.69**	**5.43**	**9/11/2024**	**3.96**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-10**	**49**	**n/a**	**9/11/2024**	**727**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-11**	**49**	**n/a**	**9/9/2024**	**229**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-12**	**49**	**n/a**	**9/5/2024**	**148**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-13**	**49**	**n/a**	**9/5/2024**	**94.8**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	DGWC-14	49	n/a	9/10/2024	43.8	No	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**DGWC-15**	**49**	**n/a**	**9/5/2024**	**123**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-17**	**49**	**n/a**	**9/10/2024**	**261**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-19**	**49**	**n/a**	**9/5/2024**	**376**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-2**	**49**	**n/a**	**9/9/2024**	**89.1**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-20**	**49**	**n/a**	**9/5/2024**	**698**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-21**	**49**	**n/a**	**9/4/2024**	**253**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-22**	**49**	**n/a**	**9/9/2024**	**211**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-23**	**49**	**n/a**	**9/5/2024**	**303**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-4**	**49**	**n/a**	**9/6/2024**	**708**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-42**	**49**	**n/a**	**9/5/2024**	**356**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-47**	**49**	**n/a**	**9/5/2024**	**136**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-48**	**49**	**n/a**	**9/10/2024**	**248**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-5**	**49**	**n/a**	**9/6/2024**	**558**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-8**	**49**	**n/a**	**9/9/2024**	**103**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-9**	**49**	**n/a**	**9/11/2024**	**281**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**250.1**	**n/a**	**9/11/2024**	**1190**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**250.1**	**n/a**	**9/9/2024**	**444**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**250.1**	**n/a**	**9/5/2024**	**331**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	250.1	n/a	9/5/2024	211	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	250.1	n/a	9/10/2024	117	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**250.1**	**n/a**	**9/5/2024**	**283**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**250.1**	**n/a**	**9/10/2024**	**476**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**250.1**	**n/a**	**9/5/2024**	**683**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	250.1	n/a	9/9/2024	227	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**250.1**	**n/a**	**9/5/2024**	**1220**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**250.1**	**n/a**	**9/4/2024**	**537**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**250.1**	**n/a**	**9/9/2024**	**443**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**250.1**	**n/a**	**9/5/2024**	**632**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**250.1**	**n/a**	**9/6/2024**	**1290**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**250.1**	**n/a**	**9/5/2024**	**522**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-47**	**250.1**	**n/a**	**9/5/2024**	**324**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**250.1**	**n/a**	**9/10/2024**	**469**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**250.1**	**n/a**	**9/6/2024**	**977**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	250.1	n/a	9/9/2024	241	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-9**	**250.1**	**n/a**	**9/11/2024**	**458**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**

Appendix III Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.003796	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.0729	124	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.162	-155	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.04309	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.0317	101	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.1316	-112	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.1541	-183	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.5923	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.02799	-159	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.05925	-151	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.2786	-156	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2202	-130	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-3.284	-142	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.25	165	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	1.696	110	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	3.884	129	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-5.884	-164	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	7.417	123	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-9	-4.842	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.1275	-132	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0.7154	111	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.8	-166	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	1.647	141	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-0.8128	-147	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-1.931	-161	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7147	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.308	-158	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.3065	87	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-9	0.6437	96	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.08979	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.1071	-140	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.02933	103	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.03918	-114	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.03208	-107	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1079	-98	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02022	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-0.4673	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-35.36	-119	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-10.67	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-7.609	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	19.09	135	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-27.83	-178	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-3.691	-86	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-10.35	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-30.86	-143	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-40.08	-165	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-51.11	-152	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-16.99	-135	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	17.7	95	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-43.7	-125	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	12.37	98	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	35.87	141	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.547	-99	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	16.66	89	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	50.16	84	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	-38.81	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-45.91	-167	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	48.99	143	74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**DGWA-53 (bg)**	**-0.003796**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWA-70A (bg)	0	28	81	No	20	50	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	0.001028	49	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-11**	**0.0729**	**124**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-12**	**-1.162**	**-155**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-13**	**-0.04309**	**-89**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-15	0	-6	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-17**	**0.0317**	**101**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-19**	**-0.1316**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-2**	**-0.1541**	**-183**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-20**	**-0.5923**	**-150**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-21	0.1223	40	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.03483	24	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.09005	61	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.1604	69	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-42	0.01101	29	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-47**	**-0.02799**	**-159**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-48**	**-0.05925**	**-151**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-5	-0.3162	-72	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-8**	**-0.2786**	**-156**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-9**	**-0.2202**	**-130**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWA-53 (bg)**	**-3.284**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWA-70A (bg)	0.08606	31	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.2068	-38	-81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-1.053	-31	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	2.117	72	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-19**	**6.25**	**165**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-20	1.265	21	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-21**	**1.696**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-22	-0.6474	-41	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-23**	**3.884**	**129**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-4	8.801	57	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-48**	**-5.884**	**-164**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-5**	**7.417**	**123**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-9**	**-4.842**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWA-53 (bg)**	**-0.1275**	**-132**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWA-70A (bg)	-0.01924	-36	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWA-71 (bg)**	**0.7154**	**111**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-10	-0.1912	-43	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	0	1	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4371	-61	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.1428	32	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	-0.04451	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWC-19**	**-3.8**	**-166**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-20**	**1.647**	**141**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-21**	**-0.8128**	**-147**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-22**	**-1.931**	**-161**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-23**	**-0.7147**	**-150**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-42**	**-2.308**	**-158**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-5**	**0.3065**	**87**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-8	-0.07396	-31	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWC-9**	**0.6437**	**96**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	DGWA-53 (bg)	-0.005145	-51	-98	No	23	8.696	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0	44	87	No	21	57.14	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	6	98	No	23	73.91	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	-0.02647	-25	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.1188	88	92	No	22	4.545	n/a	n/a	0.01	NP
Fluoride (mg/L)	**DGWC-47**	**-0.08979**	**-121**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**DGWC-48**	**-0.1071**	**-140**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	DGWC-9	-0.02858	-18	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.01147	18	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02084	-54	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.005537	22	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	-0.02626	-46	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	-0.002594	-21	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-19**	**0.02933**	**103**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-20**	**-0.03918**	**-114**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-42**	**-0.03208**	**-107**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (SU)	**DGWC-47**	**-0.1079**	**-98**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.02012	-47	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.04532	67	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-8	0	-4	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-9**	**-0.02022**	**-121**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWA-53 (bg)	-0.3077	-24	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	0	-22	-81	No	20	50	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWA-71 (bg)**	**-0.4673**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-10	-15.85	-43	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	7.966	55	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-12**	**-35.36**	**-119**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-13**	**-10.67**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-15**	**-7.609**	**-150**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-17	2.818	45	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-19**	**19.09**	**135**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-2**	**-27.83**	**-178**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-20	-19.4	-50	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-21**	**-3.691**	**-86**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-22	-8.499	-63	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	7.177	72	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	12.71	46	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-42**	**-10.35**	**-94**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-47**	**-30.86**	**-143**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-48**	**-40.08**	**-165**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-5	13.47	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-8**	**-51.11**	**-152**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-9	-8.648	-47	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-16.99**	**-135**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	3	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-0.8828	-30	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-16.46	-44	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**17.7**	**95**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-43.7**	**-125**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-3.141	-52	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**12.37**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**35.87**	**141**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-35.45	-40	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	3.621	42	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**-6.547**	**-99**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**16.66**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**50.16**	**84**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.6	-73	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-47**	**-38.81**	**-140**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-45.91**	**-167**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**48.99**	**143**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	-0.9241	-4	-68	No	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Cobalt DGWA-53

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/5/2024, 11:35 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.00312**	**-136**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/5/2024, 12:12 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0045	n/a	n/a	n/a	n/a	63	84.13	n/a	0.0395	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	63	76.19	n/a	0.0395	NP Inter(NDs)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	63	0	n/a	0.0395	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	63	53.97	n/a	0.0395	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	63	93.65	n/a	0.0395	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	62	72.58	n/a	0.04158	NP Inter(NDs)
Cobalt (mg/L)	0.024	n/a	n/a	n/a	n/a	57	50.88	n/a	0.05373	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	4.624	n/a	n/a	n/a	n/a	63	0	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	67	46.27	n/a	0.03217	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	63	85.71	n/a	0.0395	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	63	38.1	n/a	0.0395	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	63	84.13	n/a	0.0395	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	63	65.08	n/a	0.0395	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	63	100	n/a	0.0395	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	63	95.24	n/a	0.0395	NP Inter(NDs)

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0045	0.006
Arsenic, Total (mg/L)	0.01		0.0054	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.024	0.024
Combined Radium, Total (pCi/L)	5		4.62	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Appendix IV - Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02703	0.01578	0.01	Yes	19	0.02141	0.009602	5.263	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.01907	0.01404	0.004	Yes	9	0.01656	0.002603	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01659	0.01236	0.004	Yes	11	0.01435	0.002967	0	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.0086	0.00617	0.004	Yes	20	0.007385	0.00214	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01169	0.008771	0.004	Yes	21	0.01023	0.002642	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008593	0.00695	0.004	Yes	21	0.007771	0.001489	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008599	0.006791	0.004	Yes	20	0.007695	0.001592	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005672	0.004905	0.004	Yes	19	0.005305	0.0006794	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	B-104D	0.1824	0.1194	0.024	Yes	10	0.15	0.03742	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-56	0.06273	0.04507	0.024	Yes	10	0.0539	0.009893	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.04746	0.03372	0.024	Yes	11	0.04059	0.008249	0	None	No	0.01	Param.
Cobalt (mg/L)	B-92	0.08067	0.04561	0.024	Yes	7	0.06314	0.01476	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06595	0.04997	0.024	Yes	11	0.05591	0.01374	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1639	0.105	0.024	Yes	20	0.1345	0.05179	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05344	0.05029	0.024	Yes	21	0.05187	0.002855	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.8575	0.5319	0.024	Yes	21	0.7459	0.3849	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3412	0.2332	0.024	Yes	21	0.2872	0.09783	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4647	0.3591	0.024	Yes	21	0.4119	0.09573	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.06958	0.02598	0.024	Yes	20	0.04778	0.03839	5	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2139	0.1582	0.024	Yes	19	0.1861	0.04757	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	15.61	10.42	5	Yes	10	13.02	2.911	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-122D	16.85	5.536	5	Yes	5	11.19	3.375	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.08374	0.05151	0.04	Yes	8	0.06763	0.0152	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.06839	0.05259	0.04	Yes	21	0.06049	0.01431	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1196	0.1008	0.04	Yes	21	0.1102	0.0171	0	None	No	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0017	0.006	No	10	0.0027	0.0006394	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-101D	0.003	0.00039	0.006	No	9	0.001859	0.001158	44.44	None	No	0.002	NP (normality)
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	10	0.00266	0.0007306	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00077	0.006	No	10	0.002104	0.001163	60	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	9	0.00272	0.00084	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-111D	0.003	0.0016	0.006	No	10	0.00262	0.0008351	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	8	0.002661	0.0009581	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-122D	0.003	0.0006	0.006	No	5	0.00252	0.001073	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.003	0.006	No	10	0.00281	0.0006008	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	13	0.002805	0.0007045	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.003	0.006	No	10	0.002766	0.00074	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00043	0.006	No	12	0.002368	0.001144	75	None	No	0.01	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	10	0.002486	0.0008386	70	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	7	0.002714	0.0007559	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	20	0.002955	0.0002012	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	21	0.002814	0.0005868	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	21	0.002765	0.0007456	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	21	0.002879	0.0005565	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.0013	0.006	No	21	0.002793	0.0006694	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	21	0.002886	0.0005237	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-20	0.003	0.0018	0.006	No	21	0.002943	0.0002619	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	21	0.002919	0.000371	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	21	0.00289	0.0005019	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0028	0.006	No	20	0.002634	0.0008691	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0014	0.006	No	21	0.002838	0.0005123	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	21	0.002819	0.0006149	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	20	0.002675	0.0008176	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.0021	0.006	No	20	0.002828	0.0005925	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	9	0.004633	0.0011	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.0019	0.01	No	10	0.003883	0.00157	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-106D	0.005	0.0024	0.01	No	9	0.004711	0.0008667	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-107D	0.005	0.0022	0.01	No	9	0.004689	0.0009333	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-108D	0.008	0.0026	0.01	No	9	0.005067	0.001356	77.78	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0023	0.01	No	10	0.00402	0.001281	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	8	0.004575	0.001202	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-56	0.004566	0.002714	0.01	No	10	0.00364	0.001037	10	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	13	0.004869	0.0004715	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.005	0.01	No	10	0.00472	0.0008854	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-66	0.005	0.0028	0.01	No	13	0.004831	0.0006102	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	12	0.00365	0.001469	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	B-82	0.0059	0.004	0.01	No	12	0.004825	0.0007034	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.005	0.01	No	11	0.004673	0.001085	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	B-92	0.002295	0.001324	0.01	No	7	0.002714	0.001604	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.005	0.0013	0.01	No	10	0.00351	0.001643	50	None	No	0.011	NP (normality)
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	7	0.0041	0.001559	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.007534	0.003353	0.01	No	20	0.00695	0.008802	5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-11	0.005	0.0022	0.01	No	20	0.00486	0.0006261	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	22	0.004601	0.00129	90.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	21	0.00478	0.001006	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	21	0.004407	0.001494	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0012	0.01	No	21	0.003673	0.00191	61.9	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001762	0.0009791	0.01	No	21	0.00253	0.001713	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0027	0.01	No	21	0.004452	0.001196	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.0208	0.009796	0.01	No	21	0.01639	0.01159	0	None	sqrt(x)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-22	0.005	0.0016	0.01	No	21	0.004648	0.001117	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	20	0.004145	0.001758	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	21	0.00461	0.001235	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002455	0.001361	0.01	No	21	0.003048	0.001645	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0015	0.01	No	21	0.0036	0.001866	61.9	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.006417	0.002261	0.01	No	20	0.006925	0.008625	20	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0019	0.01	No	20	0.003928	0.001696	70	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-9**	**0.02703**	**0.01578**	**0.01**	**Yes**	**19**	**0.02141**	**0.009602**	**5.263**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.023	0.019	2	No	10	0.0283	0.02459	0	None	No	0.011	NP (normality)
Barium (mg/L)	B-101D	0.07507	0.05671	2	No	9	0.06589	0.009506	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.0223	0.0193	2	No	10	0.0208	0.001687	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02353	0.01887	2	No	10	0.0212	0.002616	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02285	0.02048	2	No	9	0.02167	0.001225	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1072	0.0404	2	No	9	0.07378	0.03457	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06111	0.04756	2	No	9	0.05433	0.007018	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.03681	0.02599	2	No	10	0.0314	0.006059	0	None	No	0.01	Param.
Barium (mg/L)	B-120D	0.03612	0.01763	2	No	8	0.02688	0.008725	0	None	No	0.01	Param.
Barium (mg/L)	B-122D	0.05202	0.03438	2	No	5	0.0432	0.005263	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.02899	0.02561	2	No	10	0.0273	0.001889	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02401	0.01799	2	No	13	0.021	0.004041	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.0468	0.02086	2	No	10	0.034	0.01568	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-66	0.02511	0.01749	2	No	10	0.0213	0.00427	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.119	0.09831	2	No	12	0.1087	0.0132	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02725	0.02111	2	No	11	0.02418	0.003683	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.034	0.024	2	No	11	0.03027	0.009111	0	None	No	0.006	NP (normality)
Barium (mg/L)	B-88	0.02037	0.01543	2	No	10	0.0179	0.002767	0	None	No	0.01	Param.
Barium (mg/L)	B-92	0.01749	0.01365	2	No	7	0.01557	0.001618	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01821	0.01419	2	No	10	0.0162	0.002251	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.022	0.02	2	No	7	0.02057	0.0007868	0	None	No	0.008	NP (normality)
Barium (mg/L)	B-98	0.1045	0.02951	2	No	7	0.067	0.03156	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02735	0.02172	2	No	20	0.02454	0.004964	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06187	0.04887	2	No	20	0.05537	0.01144	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03852	0.02712	2	No	22	0.0334	0.01124	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03115	0.02535	2	No	20	0.02765	0.006625	5	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-14	0.06192	0.05823	2	No	21	0.06008	0.003343	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.0482	0.04168	2	No	21	0.04494	0.005911	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05055	0.03652	2	No	21	0.04353	0.01271	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02518	0.02243	2	No	21	0.0238	0.002497	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02265	0.02135	2	No	21	0.022	0.001183	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01579	0.01098	2	No	21	0.01339	0.004357	4.762	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	21	0.02526	0.001805	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03561	0.03053	2	No	21	0.03307	0.004609	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02335	0.01942	2	No	21	0.02138	0.003561	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-4	0.03532	0.03174	2	No	20	0.03353	0.003147	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01891	0.01562	2	No	21	0.01735	0.003125	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01995	0.0169	2	No	21	0.01842	0.002764	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0143	0.01323	2	No	21	0.01377	0.0009723	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01807	0.01639	2	No	19	0.01723	0.001431	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03388	0.02422	2	No	20	0.02905	0.008503	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01657	0.01512	2	No	19	0.01584	0.001239	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005558	0.0003722	0.004	No	10	0.000464	0.0001029	10	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.0005	0.000047	0.004	No	9	0.0002099	0.0002177	33.33	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-102D	0.001236	0.0008502	0.004	No	10	0.001043	0.0002161	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001555	0.001141	0.004	No	10	0.001348	0.0002317	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001657	0.00007882	0.004	No	9	0.0001222	0.00005228	11.11	None	x^(1/3)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	9	0.00045	0.00015	88.89	None	No	0.002	NP (NDs)
Beryllium (mg/L)	B-108D	0.00058	0.0005	0.004	No	9	0.0005089	0.00002667	88.89	None	No	0.002	NP (NDs)
Beryllium (mg/L)	B-120D	0.001069	0.0007459	0.004	No	8	0.0009075	0.0001525	0	None	No	0.01	Param.
Beryllium (mg/L)	B-122D	0.0005545	0.0002215	0.004	No	5	0.000388	0.00009935	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.0013	0.0012	0.004	No	10	0.00123	0.00006749	0	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-62	0.00018	0.00009	0.004	No	14	0.0002863	0.0004091	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-63	0.00053	0.0003	0.004	No	12	0.0004842	0.0003297	8.333	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-66	0.0005	0.00019	0.004	No	12	0.0004742	0.00008949	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	B-77	0.0005	0.000057	0.004	No	12	0.0003325	0.0002085	58.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	B-82	0.001876	0.001415	0.004	No	11	0.001645	0.000277	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.00044	0.00028	0.004	No	11	0.0003936	0.0001122	0	None	No	0.006	NP (normality)
Beryllium (mg/L)	B-88	0.002448	0.0009542	0.004	No	10	0.001763	0.0012	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.01907**	**0.01404**	**0.004**	**Yes**	**9**	**0.01656**	**0.002603**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01659**	**0.01236**	**0.004**	**Yes**	**11**	**0.01435**	**0.002967**	**0**	**None**	**x^2**	**0.01**	**Param.**
Beryllium (mg/L)	B-97	0.001811	0.001589	0.004	No	10	0.0017	0.0001247	10	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.0005	0.000068	0.004	No	10	0.00042	0.0002453	60	None	No	0.011	NP (NDs)
Beryllium (mg/L)	**DGWC-10**	**0.0086**	**0.00617**	**0.004**	**Yes**	**20**	**0.007385**	**0.00214**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.003	0.00014	0.004	No	20	0.001152	0.001391	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00028	0.00013	0.004	No	22	0.000354	0.0006077	18.18	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.0005	0.000073	0.004	No	20	0.0004342	0.00064	55	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	21	0.0005847	0.0005645	90.48	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00064	0.00052	0.004	No	21	0.0006671	0.0002821	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001933	0.001696	0.004	No	21	0.001814	0.0002151	9.524	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.006118	0.003311	0.004	No	21	0.004714	0.002544	9.524	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	21	0.0002919	0.0004028	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00013	0.004	No	21	0.0002314	0.000294	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	21	0.00053	0.0003352	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00034	0.0002	0.004	No	20	0.000381	0.0003914	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002644	0.002165	0.004	No	21	0.002405	0.0004341	4.762	None	No	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01169**	**0.008771**	**0.004**	**Yes**	**21**	**0.01023**	**0.002642**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008593**	**0.00695**	**0.004**	**Yes**	**21**	**0.007771**	**0.001489**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.008599**	**0.006791**	**0.004**	**Yes**	**20**	**0.007695**	**0.001592**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002409	0.001282	0.004	No	20	0.001931	0.001108	5	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**DGWC-9**	**0.005672**	**0.004905**	**0.004**	**Yes**	**19**	**0.005305**	**0.0006794**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	10	0.000396	0.0001343	20	None	No	0.011	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	9	0.0004567	0.00013	88.89	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-102D	0.0008757	0.0006923	0.005	No	10	0.000784	0.0001028	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0005	0.00012	0.005	No	9	0.0003633	0.0001651	55.56	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-108D	0.0005	0.00015	0.005	No	9	0.0004256	0.0001479	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-120D	0.001143	0.000897	0.005	No	8	0.00102	0.000116	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003425	0.0002615	0.005	No	10	0.000302	0.00004541	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	10	0.000349	0.0001648	50	None	No	0.011	NP (normality)
Cadmium (mg/L)	B-66	0.0005	0.00018	0.005	No	10	0.000452	0.0001518	70	None	No	0.011	NP (NDs)
Cadmium (mg/L)	B-82	0.0007512	0.0005215	0.005	No	11	0.0006364	0.0001378	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003455	0.0002654	0.005	No	11	0.0003055	0.00004803	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.004218	0.001186	0.005	No	10	0.002702	0.001699	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001455	0.0008482	0.005	No	7	0.001151	0.0002553	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0008955	0.0007525	0.005	No	10	0.000824	0.00008017	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.00064	0.00055	0.005	No	7	0.0005929	0.0000403	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	B-98	0.0005993	0.00007784	0.005	No	7	0.0004443	0.0002234	42.86	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001052	0.0006819	0.005	No	20	0.000867	0.000326	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	20	0.0003765	0.000173	65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003085	0.0002035	0.005	No	22	0.0003918	0.000184	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	20	0.000464	0.0001125	90	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.0005	0.00013	0.005	No	21	0.00043	0.000215	76.19	Kaplan-Meier	No	0.01	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	DGWC-17	0.0003159	0.00024	0.005	No	21	0.0002843	0.00008103	9.524	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-19	0.000402	0.0003371	0.005	No	21	0.0003695	0.00005886	9.524	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00018	0.005	No	21	0.0004048	0.0002049	52.38	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-20	0.002734	0.001894	0.005	No	21	0.002314	0.0007611	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006436	0.0004355	0.005	No	21	0.0005395	0.0001886	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006128	0.0004768	0.005	No	21	0.0005448	0.0001233	9.524	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0002191	0.0001602	0.005	No	21	0.000289	0.0001992	19.05	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-4	0.0008621	0.0006639	0.005	No	20	0.000763	0.0001745	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0009646	0.0005169	0.005	No	21	0.0007776	0.0004833	9.524	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002064	0.001273	0.005	No	21	0.001668	0.0007168	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.003675	0.002463	0.005	No	21	0.003229	0.001494	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0009223	0.0005577	0.005	No	20	0.00074	0.0003211	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002273	0.001552	0.005	No	20	0.001913	0.0006348	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006208	0.0005213	0.005	No	19	0.0005711	0.00008491	10.53	None	No	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00094	0.1	No	10	0.004151	0.001792	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	9	0.0046	0.0012	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.005	0.1	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	9	0.004589	0.001233	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.0014	0.1	No	10	0.003839	0.001882	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	13	0.004691	0.001115	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.0013	0.1	No	10	0.004194	0.001706	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.0007	0.1	No	12	0.003705	0.001945	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0013	0.1	No	11	0.004309	0.001538	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	B-83	0.004143	0.002153	0.1	No	11	0.003173	0.001254	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.0014	0.1	No	10	0.003895	0.001791	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00066	0.1	No	10	0.003473	0.002031	60	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	7	0.003957	0.001781	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	DGWC-10	0.005	0.00083	0.1	No	20	0.002515	0.001984	35	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	20	0.004119	0.001807	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	22	0.004633	0.001187	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	20	0.004144	0.001756	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	21	0.004588	0.002023	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0025	0.1	No	21	0.002971	0.0007531	9.524	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.003	0.0023	0.1	No	21	0.00289	0.0009273	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.00064	0.1	No	21	0.003722	0.002071	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002036	0.001512	0.1	No	21	0.003086	0.002098	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.00096	0.1	No	21	0.003807	0.001956	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	21	0.004819	0.0008292	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	21	0.002991	0.00217	52.38	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.001	0.1	No	21	0.00363	0.002012	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	21	0.004795	0.0009383	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	21	0.004576	0.001339	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	20	0.004772	0.001017	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.0015	0.1	No	20	0.003873	0.001821	70	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.005	0.00061	0.1	No	19	0.003584	0.002052	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.06544	0.02158	0.024	No	12	0.04496	0.02689	8.333	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-101D	0.0072	0.0022	0.024	No	9	0.003356	0.001512	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	B-102D	0.01408	0.01028	0.024	No	10	0.01218	0.002132	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.1824**	**0.1194**	**0.024**	**Yes**	**10**	**0.15**	**0.03742**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.005	0.00056	0.024	No	9	0.00357	0.002146	66.67	None	No	0.002	NP (NDs)
Cobalt (mg/L)	B-107D	0.001252	0.0006766	0.024	No	9	0.0009633	0.000323	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-108D	0.12	0.00045	0.024	No	9	0.015	0.0394	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.024	No	10	0.002319	0.002311	40	None	No	0.011	NP (normality)
Cobalt (mg/L)	B-120D	0.007734	0.00152	0.024	No	8	0.004738	0.005133	0	None	ln(x)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	B-122D	0.01125	0.004425	0.024	No	5	0.00784	0.002038	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-56**	**0.06273**	**0.04507**	**0.024**	**Yes**	**10**	**0.0539**	**0.009893**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.005	0.00031	0.024	No	14	0.004329	0.001705	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.04746**	**0.03372**	**0.024**	**Yes**	**11**	**0.04059**	**0.008249**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.02021	0.007315	0.024	No	11	0.01376	0.007739	9.091	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.005	0.0004	0.024	No	12	0.003227	0.001987	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	B-82	0.004571	0.001559	0.024	No	12	0.003162	0.002193	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01671	0.01005	0.024	No	11	0.01338	0.003994	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.00828	0.001634	0.024	No	11	0.006059	0.007192	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	**B-92**	**0.08067**	**0.04561**	**0.024**	**Yes**	**7**	**0.06314**	**0.01476**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06595**	**0.04997**	**0.024**	**Yes**	**11**	**0.05591**	**0.01374**	**0**	**None**	**x^4**	**0.01**	**Param.**
Cobalt (mg/L)	B-97	0.003262	0.002881	0.024	No	7	0.003071	0.0001604	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.005	0.00063	0.024	No	9	0.004081	0.001776	66.67	None	No	0.002	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.1639**	**0.105**	**0.024**	**Yes**	**20**	**0.1345**	**0.05179**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.024	No	20	0.003603	0.004303	30	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01445	0.005184	0.024	No	22	0.01116	0.009644	9.091	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.024	No	20	0.004314	0.001676	85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0024	0.0016	0.024	No	21	0.003229	0.005068	4.762	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02487	0.01827	0.024	No	21	0.02157	0.005984	4.762	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.05344**	**0.05029**	**0.024**	**Yes**	**21**	**0.05187**	**0.002855**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.01753	0.005858	0.024	No	21	0.01336	0.01187	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.8575**	**0.5319**	**0.024**	**Yes**	**21**	**0.7459**	**0.3849**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009569	0.008454	0.024	No	21	0.008781	0.001466	9.524	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009272	0.007233	0.024	No	21	0.008252	0.001848	9.524	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00048	0.024	No	21	0.002691	0.002755	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.0019	0.0015	0.024	No	20	0.002055	0.001025	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03142	0.01223	0.024	No	21	0.02419	0.02004	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.3412**	**0.2332**	**0.024**	**Yes**	**21**	**0.2872**	**0.09783**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4647**	**0.3591**	**0.024**	**Yes**	**21**	**0.4119**	**0.09573**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.02988	0.01981	0.024	No	20	0.02556	0.01025	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	**DGWC-8**	**0.06958**	**0.02598**	**0.024**	**Yes**	**20**	**0.04778**	**0.03839**	**5**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.2139**	**0.1582**	**0.024**	**Yes**	**19**	**0.1861**	**0.04757**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-100	0.9945	0.2768	5	No	10	0.6356	0.4022	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	1.953	0.836	5	No	9	1.394	0.5783	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.289	0.5145	5	No	10	0.9015	0.4338	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**15.61**	**10.42**	**5**	**Yes**	**10**	**13.02**	**2.911**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	0.7882	0.4029	5	No	9	0.5956	0.1996	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.465	0.5665	5	No	9	1.013	0.5158	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.525	0.7772	5	No	9	1.151	0.3872	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	9.917	4.433	5	No	10	7.175	3.074	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-120D	2.908	1.387	5	No	8	2.148	0.7175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-122D**	**16.85**	**5.536**	**5**	**Yes**	**5**	**11.19**	**3.375**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-56	1.136	0.7873	5	No	10	0.9616	0.1953	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.033	1.519	5	No	12	1.776	0.3271	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	1.703	0.8541	5	No	9	1.278	0.4396	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	0.951	0.1948	5	No	9	0.5729	0.3916	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	1.644	0.7582	5	No	11	1.214	0.5738	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.8257	0.4115	5	No	10	0.6186	0.2321	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	0.8646	0.2695	5	No	11	0.5671	0.3571	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.122	0.9092	5	No	10	1.516	0.6797	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.535	1.154	5	No	7	1.844	0.5811	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.538	0.8911	5	No	10	1.214	0.3623	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	1.969	1.014	5	No	7	1.491	0.4018	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.554	0.3972	5	No	7	1.476	0.9079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.532	1.107	5	No	21	1.337	0.4054	0	None	sqrt(x)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.157	0.6721	5	No	21	0.9143	0.4392	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.116	0.51	5	No	21	0.8751	0.6069	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.334	0.9128	5	No	21	1.123	0.3815	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	0.9838	0.6485	5	No	21	0.8161	0.3039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.278	0.602	5	No	21	1.007	0.7574	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.9395	0.5536	5	No	21	0.7466	0.3497	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	0.9266	0.5022	5	No	21	0.7144	0.3847	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.302	0.8436	5	No	21	1.073	0.4152	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.521	1.017	5	No	21	1.269	0.4576	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	0.9656	0.5509	5	No	21	0.7582	0.3758	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.189	0.69	5	No	21	0.9397	0.4527	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.384	0.8745	5	No	21	1.129	0.4618	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.627	1.219	5	No	21	1.423	0.3698	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.103	0.6857	5	No	21	0.8945	0.3786	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.593	1.713	5	No	21	2.153	0.7982	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.196	1.475	5	No	21	1.836	0.6538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.612	0.9907	5	No	21	1.301	0.5629	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8613	0.5503	5	No	21	0.7058	0.2819	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.372	0.9768	5	No	19	1.175	0.3378	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.063	4	No	10	0.0856	0.01928	60	None	No	0.011	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	9	0.07778	0.0243	22.22	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-102D	0.101	0.06961	4	No	10	0.0853	0.01759	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.4138	0.2942	4	No	10	0.354	0.06703	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07264	0.05136	4	No	9	0.062	0.01102	11.11	None	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	9	0.08956	0.02073	77.78	None	No	0.002	NP (NDs)
Fluoride (mg/L)	B-108D	0.13	0.06	4	No	9	0.09456	0.02166	66.67	None	No	0.002	NP (NDs)
Fluoride (mg/L)	B-111D	0.4764	0.3336	4	No	10	0.405	0.08003	0	None	No	0.01	Param.
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	8	0.08175	0.0216	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-122D	0.228	0.168	4	No	5	0.198	0.01789	0	None	No	0.01	Param.
Fluoride (mg/L)	B-56	0.3084	0.1652	4	No	10	0.2368	0.08025	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.2054	0.1057	4	No	12	0.1627	0.0924	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	B-63	0.45	0.12	4	No	9	0.1767	0.1057	0	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-66	0.51	0.1	4	No	9	0.1978	0.1342	0	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-77	0.1	0.069	4	No	11	0.08718	0.0145	45.45	None	No	0.006	NP (normality)
Fluoride (mg/L)	B-82	0.1223	0.06122	4	No	10	0.0994	0.0391	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-83	0.1026	0.06439	4	No	11	0.08818	0.02363	18.18	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.056	4	No	10	0.091	0.01898	80	Kaplan-Meier	No	0.011	NP (NDs)
Fluoride (mg/L)	B-92	0.3208	0.182	4	No	7	0.2514	0.05843	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.392	0.266	4	No	10	0.329	0.07062	0	None	No	0.01	Param.
Fluoride (mg/L)	B-97	0.14	0.085	4	No	7	0.1059	0.02484	0	None	No	0.008	NP (normality)
Fluoride (mg/L)	B-98	0.1786	0.09228	4	No	7	0.1354	0.03633	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.737	1.309	4	No	22	1.523	0.3985	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	21	0.08219	0.02436	61.9	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.1379	0.0638	4	No	22	0.142	0.1261	27.27	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-13	0.1454	0.07965	4	No	21	0.127	0.09155	4.762	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.059	4	No	22	0.08205	0.02569	59.09	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.07	4	No	22	0.09736	0.04026	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.1842	0.08567	4	No	22	0.1645	0.1398	13.64	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.3508	0.1646	4	No	22	0.3132	0.2805	4.545	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.1	0.06	4	No	22	0.1263	0.1371	31.82	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	1.107	0.5695	4	No	22	0.8382	0.5005	4.545	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.1	0.07	4	No	22	0.09895	0.05878	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.11	0.068	4	No	22	0.1065	0.05962	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.1671	0.08544	4	No	22	0.1505	0.1364	9.091	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.096	4	No	22	0.1223	0.1523	63.64	None	No	0.01	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	22	0.09455	0.0187	90.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	0.9779	0.5111	4	No	22	0.7445	0.4348	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	0.9582	0.5462	4	No	22	0.7855	0.4233	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.5015	0.1983	4	No	21	0.4533	0.4241	4.762	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.2423	0.0848	4	No	21	0.2233	0.2214	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.308	0.9482	4	No	20	1.128	0.3167	0	None	No	0.01	Param.
Fluoride (mg/L)	B-125D	0.1301	0.05898	4	No	5	0.0974	0.02231	20	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.00018	0.015	No	10	0.0007478	0.0004072	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	9	0.0008961	0.0003117	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.00005	0.015	No	10	0.0007146	0.0004596	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.00047	0.015	No	10	0.0008521	0.0003271	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	9	0.0008938	0.0003187	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	B-108D	0.0025	0.001	0.015	No	9	0.001167	0.0005	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000058	0.015	No	10	0.0008109	0.0003987	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	8	0.0008988	0.0002864	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-56	0.001	0.0001	0.015	No	10	0.0007411	0.0004182	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000073	0.015	No	10	0.000812	0.0003964	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00029	0.015	No	12	0.00084	0.0003999	58.33	None	No	0.01	NP (NDs)
Lead (mg/L)	B-82	0.001	0.00011	0.015	No	11	0.0007572	0.0004165	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	B-83	0.001	0.00012	0.015	No	11	0.0007523	0.0004085	63.64	None	No	0.006	NP (NDs)
Lead (mg/L)	B-88	0.0022	0.00073	0.015	No	10	0.002119	0.003504	30	None	No	0.011	NP (normality)
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	10	0.000824	0.000371	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-98	0.0014	0.001	0.015	No	7	0.001057	0.0001512	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	DGWC-10	0.005	0.00014	0.015	No	20	0.003539	0.00229	70	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00015	0.015	No	20	0.000775	0.0004003	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	22	0.0009186	0.0002634	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	20	0.0009149	0.0002625	90	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	21	0.0008678	0.000332	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.001	0.0002	0.015	No	21	0.0007972	0.0003978	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00013	0.015	No	21	0.0007044	0.0004288	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00026	0.015	No	21	0.000809	0.0004075	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000094	0.015	No	21	0.000654	0.0004522	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.01	0.00047	0.015	No	21	0.006841	0.004588	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.0002	0.015	No	21	0.0007984	0.0005555	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	21	0.0009555	0.0002038	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	20	0.0008235	0.0003631	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0003784	0.0001799	0.015	No	21	0.0007514	0.001057	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0005	0.015	No	21	0.0009562	0.0009668	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.001581	0.0008734	0.015	No	21	0.001283	0.0007399	14.29	None	sqrt(x)	0.01	Param.
Lead (mg/L)	DGWC-5	0.001	0.00008	0.015	No	20	0.0006804	0.0005973	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00027	0.015	No	20	0.0007391	0.0003841	65	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	19	0.004242	0.001798	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.03	0.0019	0.04	No	10	0.00772	0.01175	20	None	No	0.011	NP (normality)
Lithium (mg/L)	B-101D	0.015	0.008	0.04	No	9	0.01242	0.002675	0	None	No	0.002	NP (normality)
Lithium (mg/L)	B-102D	0.0136	0.01022	0.04	No	10	0.01191	0.001895	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03934	0.03586	0.04	No	10	0.0376	0.001955	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005532	0.004846	0.04	No	9	0.005189	0.0003551	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01573	0.01271	0.04	No	9	0.01422	0.001563	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01553	0.01358	0.04	No	9	0.01456	0.001014	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.02582	0.01878	0.04	No	10	0.0223	0.003945	0	None	No	0.01	Param.
Lithium (mg/L)	**B-120D**	**0.08374**	**0.05151**	**0.04**	**Yes**	**8**	**0.06763**	**0.0152**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-122D	0.014	0.013	0.04	No	5	0.0132	0.0004472	0	None	No	0.031	NP (normality)
Lithium (mg/L)	B-56	0.005881	0.005239	0.04	No	10	0.00556	0.0003596	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0082	0.04	No	13	0.009969	0.004551	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	B-63	0.0072	0.005	0.04	No	11	0.007782	0.00577	9.091	None	No	0.006	NP (normality)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-66	0.03	0.03	0.04	No	10	0.02707	0.009256	90	None	No	0.011	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.0011	0.04	No	12	0.01619	0.01446	50	None	No	0.01	NP (normality)
Lithium (mg/L)	B-82	0.03	0.00078	0.04	No	11	0.009403	0.01327	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	B-83	0.002989	0.00196	0.04	No	11	0.0025	0.0007483	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-88	0.01291	0.001861	0.04	No	10	0.00755	0.008268	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01554	0.01089	0.04	No	7	0.01321	0.001955	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.01257	0.01033	0.04	No	10	0.01145	0.001257	0	None	No	0.01	Param.
Lithium (mg/L)	B-97	0.005076	0.004324	0.04	No	7	0.0047	0.0003162	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.015	0.00089	0.04	No	7	0.003223	0.005209	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	DGWC-10	0.0053	0.0033	0.04	No	20	0.00624	0.006534	10	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0024	0.0019	0.04	No	20	0.003315	0.005117	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	22	0.02209	0.01321	72.73	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.003	0.04	No	20	0.005435	0.006699	10	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0035	0.04	No	21	0.005738	0.005448	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0063	0.0052	0.04	No	20	0.005975	0.0008441	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	21	0.02174	0.01339	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.0026	0.04	No	21	0.0041	0.004802	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0781	0.021	0.04	No	21	0.04085	0.02869	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.01207	0.004954	0.04	No	21	0.00851	0.006446	4.762	None	No	0.01	Param.
Lithium (mg/L)	DGWC-21	0.0063	0.0056	0.04	No	21	0.006876	0.004172	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0044	0.0035	0.04	No	21	0.004895	0.004631	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.009392	0.003569	0.04	No	21	0.0098	0.01613	4.762	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0037	0.0027	0.04	No	20	0.00427	0.004907	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01226	0.008965	0.04	No	21	0.01094	0.0038	4.762	None	ln(x)	0.01	Param.
Lithium (mg/L)	**DGWC-47**	**0.06839**	**0.05259**	**0.04**	**Yes**	**21**	**0.06049**	**0.01431**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1196**	**0.1008**	**0.04**	**Yes**	**21**	**0.1102**	**0.0171**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.0079	0.0055	0.04	No	20	0.007185	0.004531	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0059	0.0036	0.04	No	20	0.00582	0.004687	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02839	0.0246	0.04	No	19	0.02649	0.003234	5.263	None	No	0.01	Param.
Lithium (mg/L)	B-125D	0.078	0.028	0.04	No	6	0.04567	0.02362	0	None	No	0.0155	NP (normality)
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	9	0.00019	0.00003	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	9	0.0002033	0.00003808	77.78	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.0002	0.002	No	10	0.0001879	0.00003826	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	9	0.0001956	0.00001333	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	9	0.0001933	0.00002	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.0002	0.002	No	10	0.0001894	0.00003352	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-56	0.00029	0.0002	0.002	No	10	0.000219	0.00005343	70	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-66	0.0002	0.0002	0.002	No	10	0.000209	0.00002846	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.0002	0.002	No	11	0.0001918	0.00002714	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.00011	0.002	No	10	0.000181	0.00004012	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-92	0.0002	0.00015	0.002	No	7	0.0001771	0.00002289	42.86	None	No	0.008	NP (normality)
Mercury (mg/L)	B-93	0.0002031	0.0001121	0.002	No	10	0.0001838	0.00004942	40	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0021	0.00009	0.002	No	20	0.000271	0.0004333	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.00048	0.00008	0.002	No	20	0.0001935	0.000084	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00014	0.002	No	22	0.0001666	0.00005843	72.73	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	20	0.000188	0.00003708	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	21	0.0001805	0.00004924	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	21	0.0001933	0.00003055	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000086	0.002	No	21	0.0001546	0.00005924	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	21	0.0001767	0.0000518	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	21	0.0002035	0.0001092	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	21	0.0001833	0.00004187	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00012	0.002	No	21	0.00017	0.00005639	76.19	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00014	0.002	No	21	0.000174	0.00005054	76.19	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00015	0.002	No	21	0.0001895	0.00004842	47.62	None	No	0.01	NP (normality)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	20	0.0002051	0.00009873	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	21	0.0001924	0.00003491	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	21	0.0001933	0.00003055	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002482	0.0001389	0.002	No	20	0.0002012	0.0001079	10	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.0001	0.002	No	20	0.000161	0.00005725	65	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00014	0.002	No	19	0.0001859	0.00007806	42.11	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-100	0.01	0.01	0.1	No	10	0.028	0.05692	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	9	0.009133	0.0026	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.01	0.1	No	10	0.00915	0.002688	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00092	0.1	No	10	0.007295	0.004356	70	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-108D	0.01	0.00078	0.1	No	9	0.008976	0.003073	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-111D	0.009687	0.005413	0.1	No	10	0.00755	0.002395	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	8	0.008861	0.003221	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-122D	0.01	0.001	0.1	No	5	0.00304	0.003912	20	None	No	0.031	NP (normality)
Molybdenum (mg/L)	B-66	0.01	0.0018	0.1	No	10	0.00833	0.003521	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-82	0.01	0.01	0.1	No	11	0.009165	0.002771	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	10	0.00824	0.00371	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-98	0.01	0.00075	0.1	No	7	0.003634	0.004357	28.57	None	No	0.008	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02028	0.01069	0.1	No	20	0.01623	0.009354	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	21	0.004271	0.003733	28.57	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-22	0.01	0.00097	0.1	No	21	0.00957	0.001971	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DGWC-23	0.0103	0.007231	0.1	No	21	0.008767	0.002784	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.005875	0.004105	0.1	No	20	0.00499	0.001559	5	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.005	0.05	No	10	0.00469	0.0009803	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	9	0.004789	0.0006333	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	10	0.00346	0.001683	50	None	No	0.011	NP (normality)
Selenium (mg/L)	B-108D	0.025	0.0016	0.05	No	9	0.006844	0.006901	77.78	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.005	0.05	No	10	0.00472	0.0008854	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	B-120D	0.005362	0.002088	0.05	No	8	0.003725	0.001544	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.01832	0.008001	0.05	No	10	0.01323	0.006582	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	12	0.004725	0.0009526	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0017	0.05	No	11	0.003136	0.001516	36.36	None	No	0.006	NP (normality)
Selenium (mg/L)	B-83	0.02415	0.01443	0.05	No	11	0.01929	0.005828	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.00322	0.00192	0.05	No	10	0.00257	0.0007288	10	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01495	0.002252	0.05	No	7	0.0086	0.005344	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.01891	0.004679	0.05	No	10	0.01195	0.00955	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-97	0.003615	0.00187	0.05	No	7	0.002743	0.0007345	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	7	0.004757	0.0006425	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	DGWC-10	0.05329	0.0209	0.05	No	20	0.04072	0.03615	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	22	0.004223	0.001977	68.18	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.006238	0.003062	0.05	No	20	0.00465	0.002796	15	None	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	21	0.003633	0.002233	52.38	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	21	0.004895	0.001597	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008507	0.006465	0.05	No	21	0.00759	0.002099	9.524	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.007624	0.005004	0.05	No	21	0.006314	0.002375	9.524	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0031	0.05	No	21	0.004386	0.001982	38.1	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.0752	0.04205	0.05	No	21	0.05863	0.03005	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	21	0.004843	0.0007201	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	20	0.00482	0.000805	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.008962	0.003433	0.05	No	21	0.00689	0.005778	9.524	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.005661	0.002401	0.05	No	21	0.005129	0.003095	23.81	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.02964	0.00704	0.05	No	20	0.02467	0.03716	5	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	20	0.00452	0.001946	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1041	0.04439	0.05	No	19	0.07977	0.0564	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-104D	0.001	0.001	0.002	No	10	0.000928	0.0002277	90	None	No	0.011	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Thallium (mg/L)	B-56	0.001	0.00021	0.002	No	10	0.000394	0.0003221	20	None	No	0.011	NP (normality)
Thallium (mg/L)	B-66	0.001	0.001	0.002	No	10	0.000921	0.0002498	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-82	0.001	0.00011	0.002	No	11	0.0008372	0.0003623	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.001	0.002	No	11	0.0009156	0.0002798	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.001	0.002	No	10	0.00092	0.000253	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	7	0.0007729	0.0003879	71.43	None	No	0.008	NP (NDs)
Thallium (mg/L)	DGWC-10	0.005	0.00037	0.002	No	20	0.00181	0.002148	35	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000097	0.002	No	22	0.0006762	0.0004391	63.64	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-14	0.001	0.00056	0.002	No	21	0.000979	0.00009602	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00018	0.002	No	21	0.00057	0.0004204	47.62	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0005552	0.0004944	0.002	No	21	0.0005248	0.0000551	4.762	None	No	0.01	Param.
Thallium (mg/L)	DGWC-20	0.01	0.0006	0.002	No	21	0.003997	0.004374	38.1	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	21	0.0007778	0.0004073	76.19	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	20	0.0009537	0.0002073	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	21	0.0007914	0.0003844	76.19	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.0003328	0.0002281	0.002	No	21	0.0002924	0.0001102	14.29	None	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	21	0.0007812	0.000401	76.19	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	20	0.000867	0.0003258	85	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No	20	0.0005315	0.000395	40	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	19	0.00266	0.002283	47.37	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/9/2024, 4:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00001631**	**-79**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-47**	**-0.0007469**	**-116**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0004397**	**-147**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-56**	**0.006632**	**36**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-93**	**-0.006787**	**-32**	**-27**	**Yes**	**11**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.00312**	**-136**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**70**	**66**	**Yes**	**21**	**76.19**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01737**	**-115**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-20**	**0.09827**	**117**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03286**	**-143**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03685**	**-187**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01263**	**-148**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01905**	**119**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4397**	**-122**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**B-120D**	**-0.01068**	**-22**	**-17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005094**	**-151**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005879**	**-155**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/9/2024, 4:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	0	66	No	21	57.14	n/a	0.05	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-25	-66	No	21	85.71	n/a	0.05	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	29	66	No	21	85.71	n/a	0.05	NP
Arsenic (mg/L)	DGWC-9	-0.0008394	-31	-58	No	19	5.263	n/a	0.05	NP
Beryllium (mg/L)	B-92	-0.001006	-17	-20	No	9	0	n/a	0.05	NP
Beryllium (mg/L)	B-93	-0.0003279	-7	-27	No	11	0	n/a	0.05	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-14	-66	No	21	95.24	n/a	0.05	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00001631**	**-79**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.000008117	-63	-66	No	21	23.81	n/a	0.05	NP
Beryllium (mg/L)	DGWC-10	0.0002667	23	62	No	20	0	n/a	0.05	NP
Beryllium (mg/L)	**DGWC-47**	**-0.0007469**	**-116**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0004397**	**-147**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWC-5	0.0002291	44	62	No	20	0	n/a	0.05	NP
Beryllium (mg/L)	DGWC-9	-0.00002633	-12	-58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	B-104D	-0.003954	-10	-23	No	10	0	n/a	0.05	NP
Cobalt (mg/L)	**B-56**	**0.006632**	**36**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	B-63	-0.002958	-18	-27	No	11	0	n/a	0.05	NP
Cobalt (mg/L)	B-92	-0.001263	-3	-15	No	7	0	n/a	0.05	NP
Cobalt (mg/L)	**B-93**	**-0.006787**	**-32**	**-27**	**Yes**	**11**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.00312**	**-136**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	55	66	No	21	61.9	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**70**	**66**	**Yes**	**21**	**76.19**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01737**	**-115**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWC-19	0.00009084	14	66	No	21	0	n/a	0.05	NP
Cobalt (mg/L)	**DGWC-20**	**0.09827**	**117**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03286**	**-143**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03685**	**-187**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01263**	**-148**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01905**	**119**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	B-104D	-0.5871	-14	-23	No	10	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	B-122D	1.245	4	10	No	5	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4397**	**-122**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	-0.02457	-20	-66	No	21	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.01502	-11	-66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	**B-120D**	**-0.01068**	**-22**	**-17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	DGWA-53 (bg)	-0.0001366	-51	-66	No	21	4.762	n/a	0.05	NP
Lithium (mg/L)	DGWA-70A (bg)	0	31	66	No	21	85.71	n/a	0.05	NP
Lithium (mg/L)	DGWA-71 (bg)	0	-26	-66	No	21	23.81	n/a	0.05	NP
Lithium (mg/L)	**DGWC-47**	**-0.005094**	**-151**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005879**	**-155**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Table of Contents

Figure A. Time Series	38
Figure B. Box Plots	380
Figure C. Outlier Summary	402
Figure D. Appendix III Prediction Limits	404
Figure E. Appendix III Trend Tests	460
Figure F. Trend Test - Cobalt DGWA-53	493
Figure G. Upper Tolerance Limits	496
Figure H. GWPS	506
Figure I. Confidence Intervals	508
Figure J. Appendix IV Trend Tests	679

FIGURE A.

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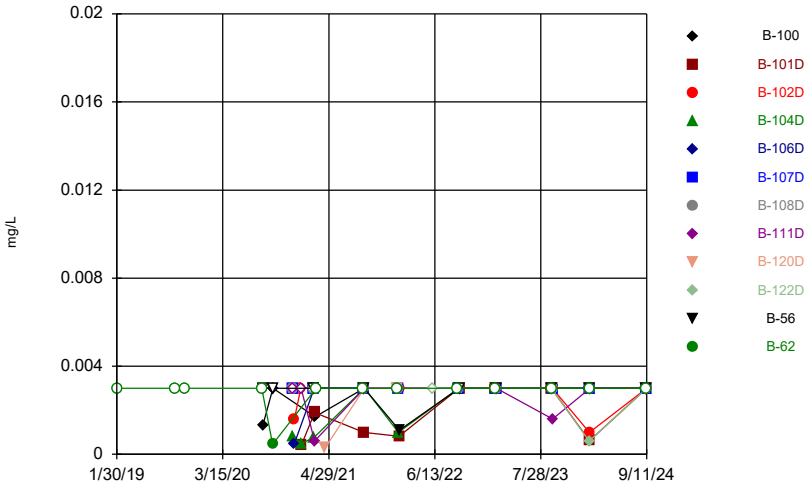
Time Series



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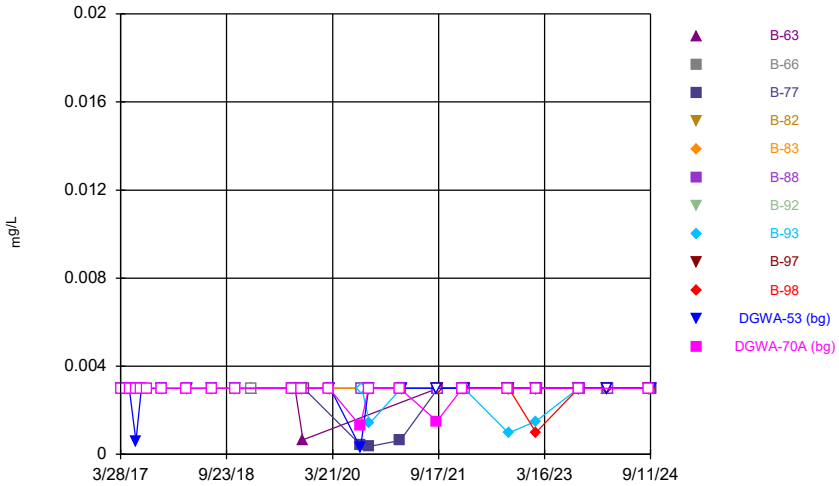

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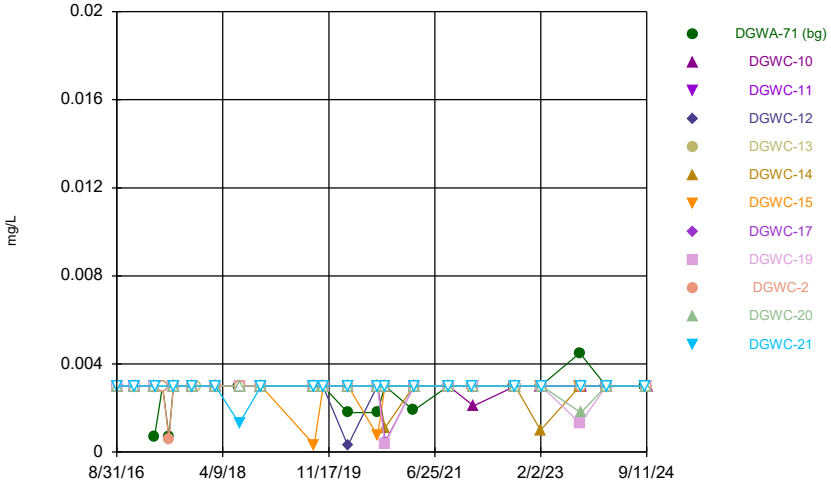

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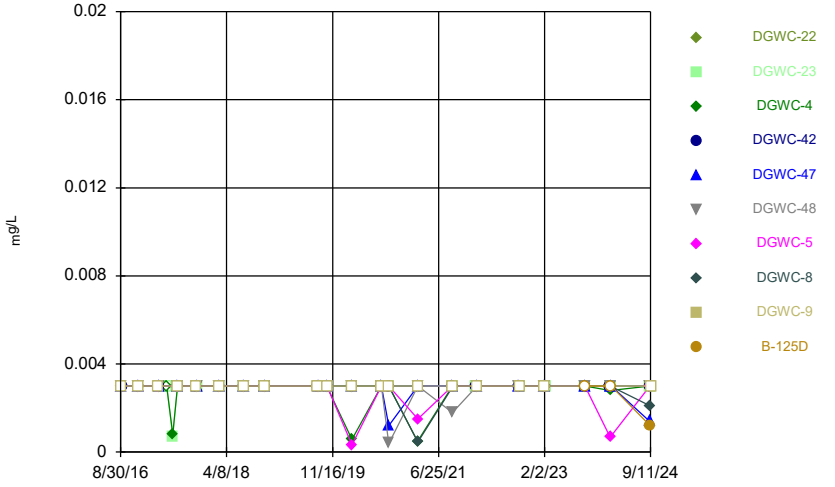

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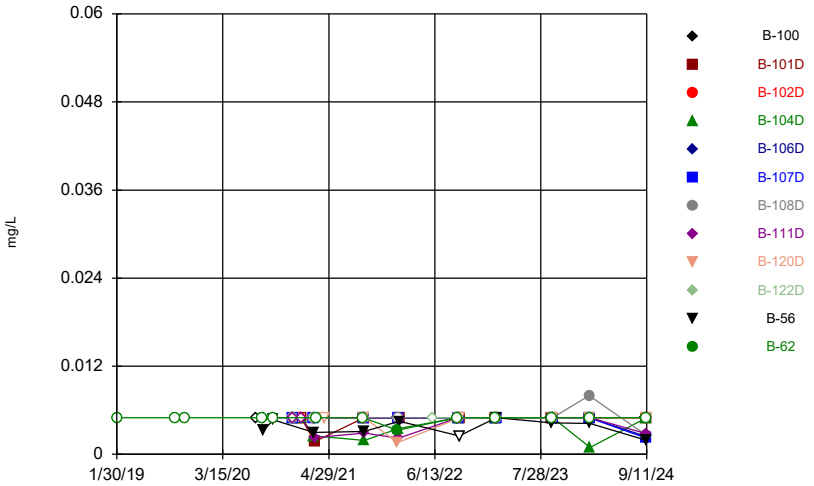

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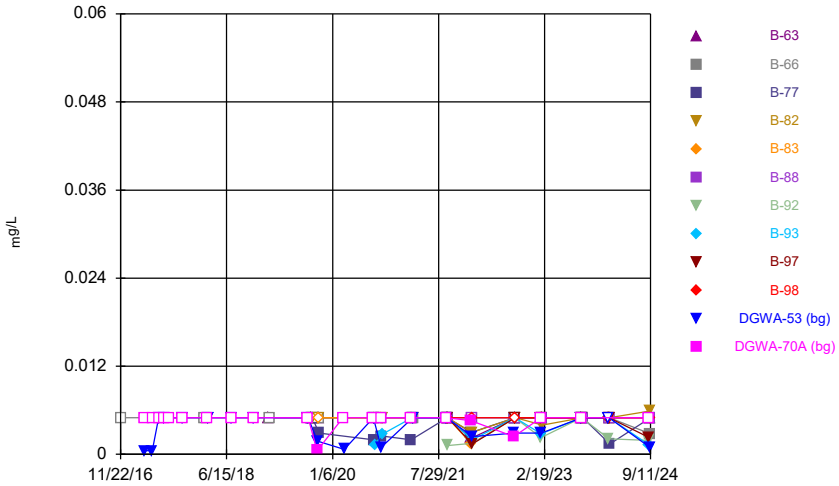

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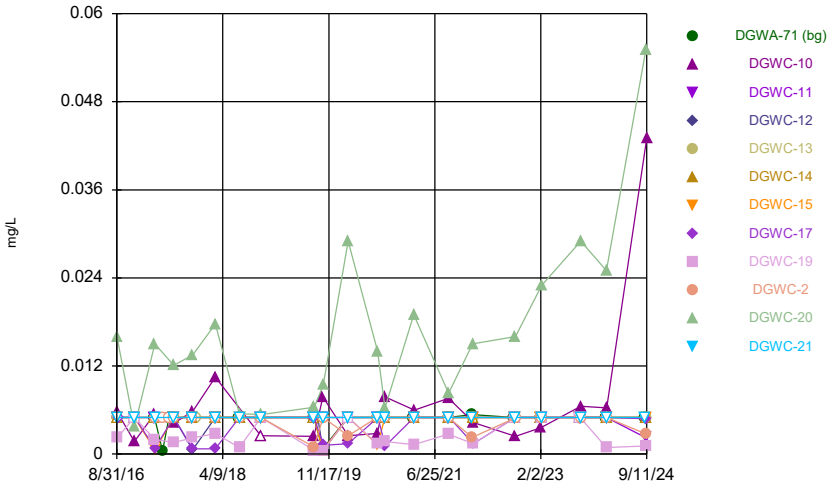

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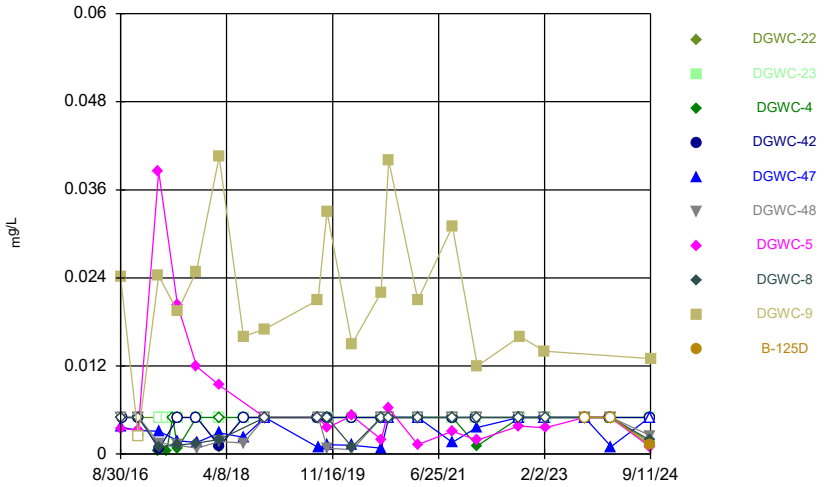

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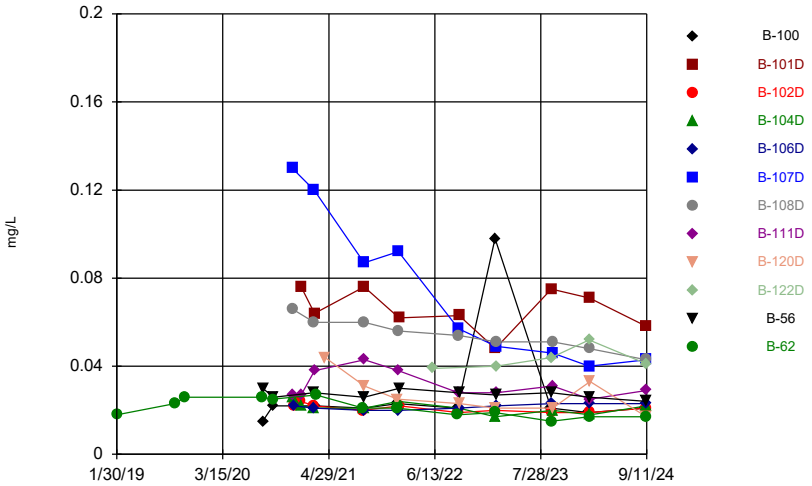

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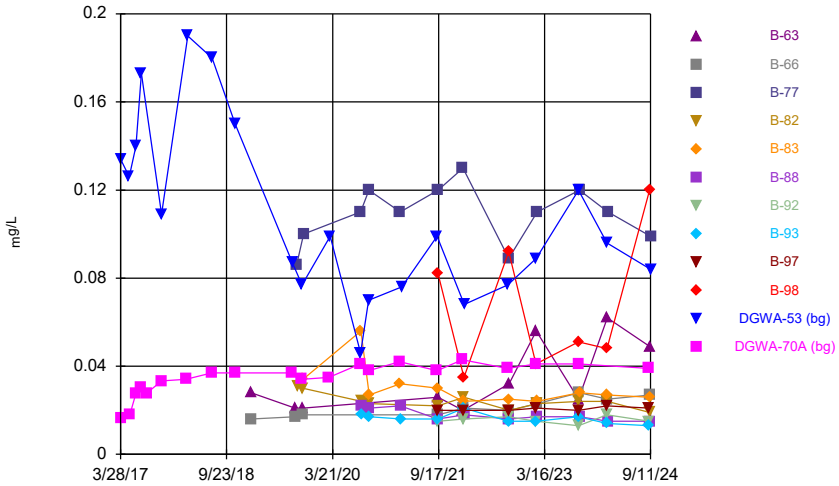

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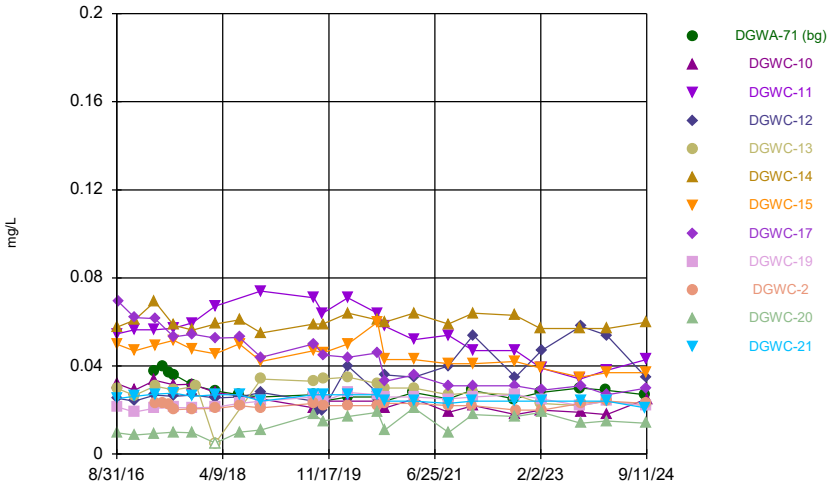

Constituent: Barium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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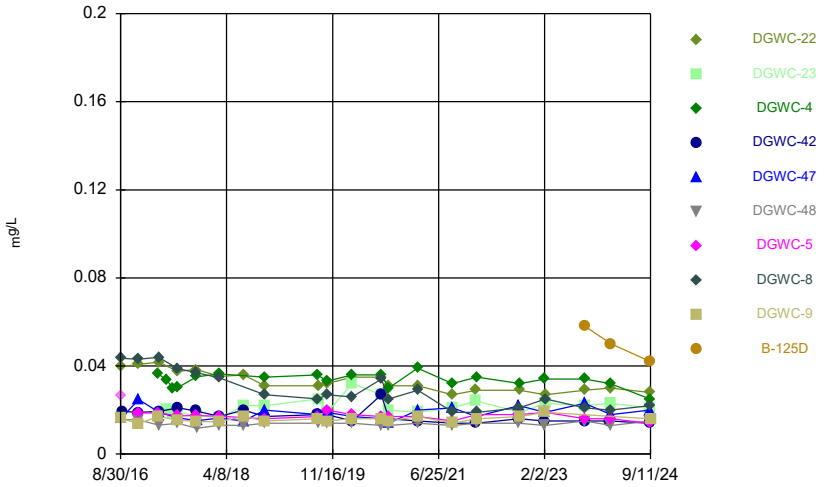
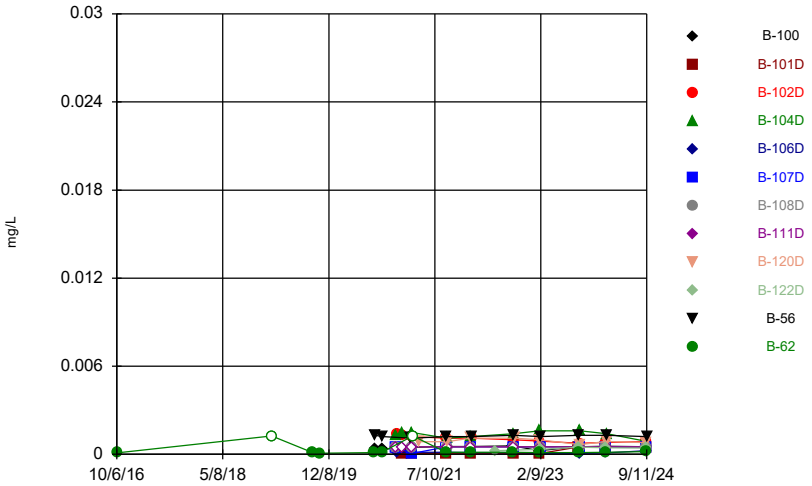
Time Series



Constituent: Barium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

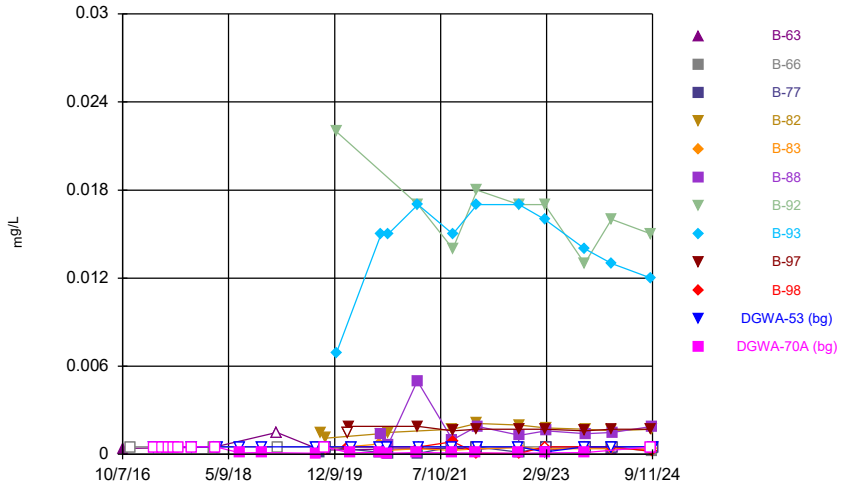
Time Series



Constituent: Beryllium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

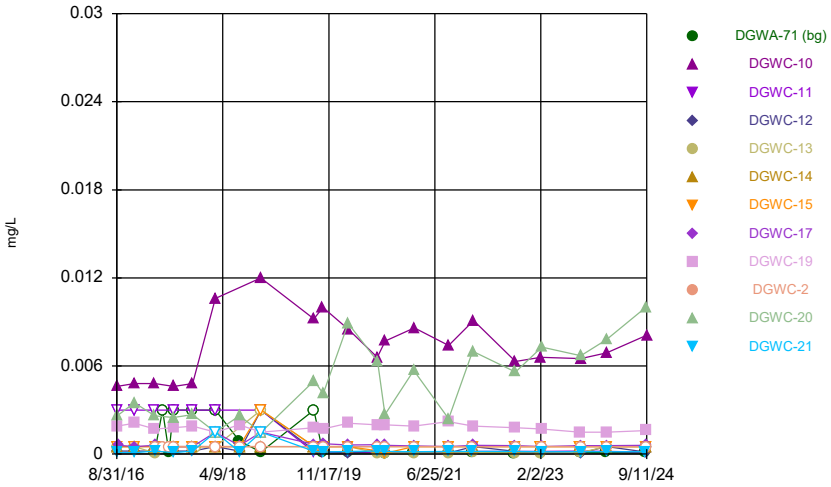
Time Series



Constituent: Beryllium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

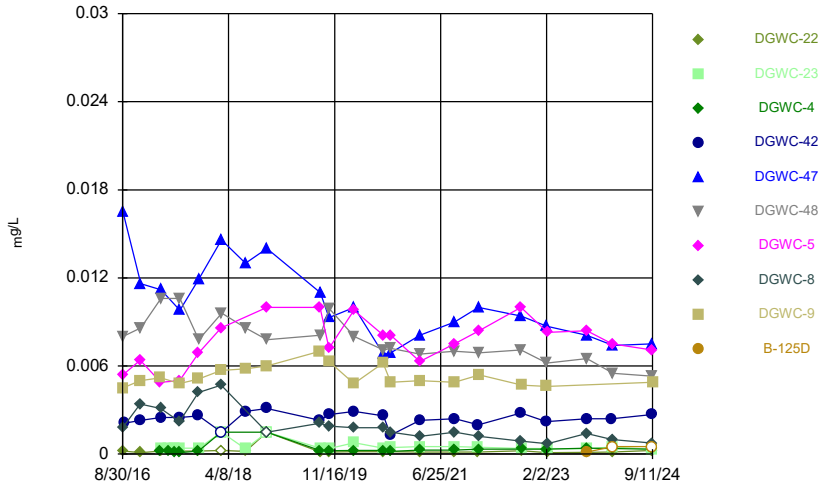
Time Series



Constituent: Beryllium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

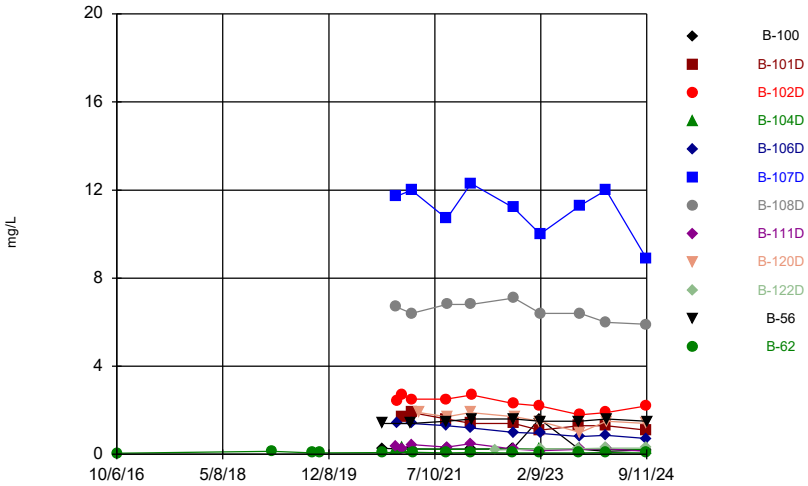
Time Series



Constituent: Beryllium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

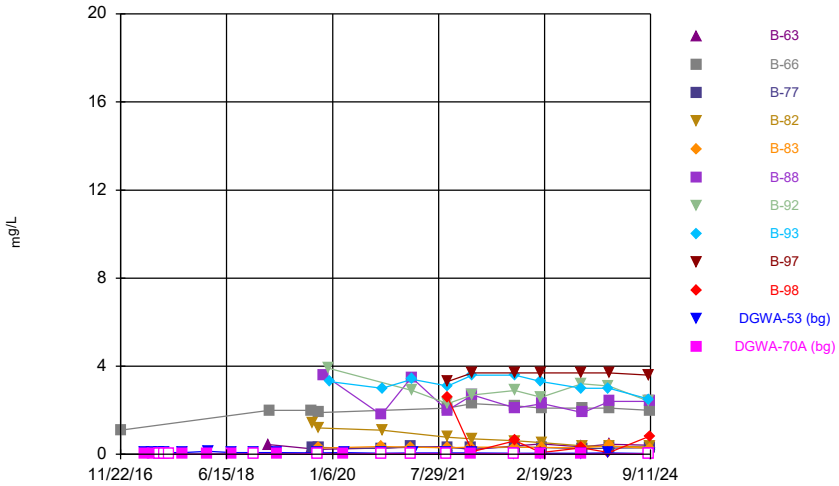
Time Series



Constituent: Boron Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

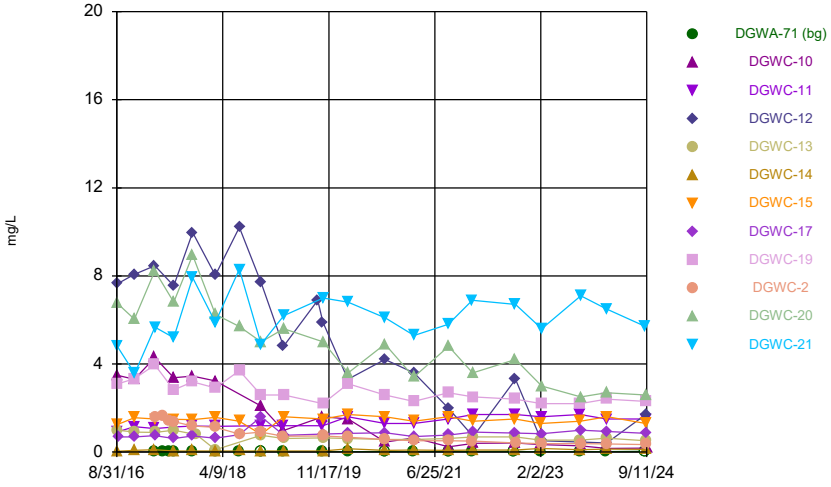
Time Series



Constituent: Boron Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

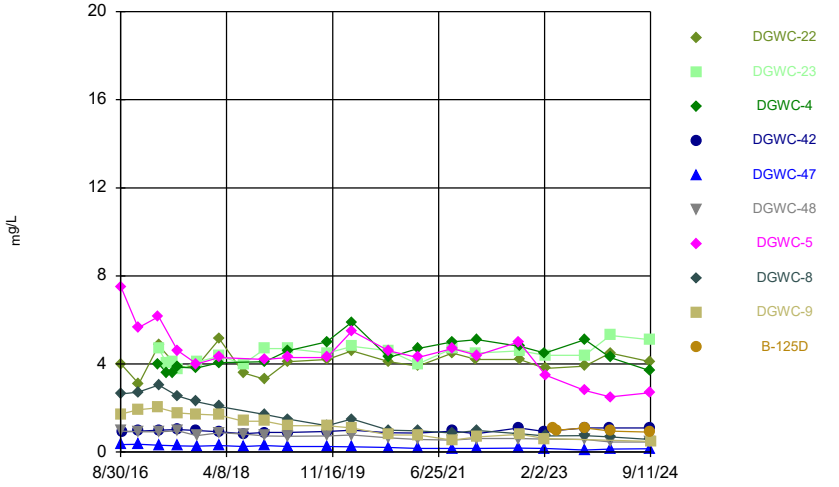
Time Series



Constituent: Boron Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

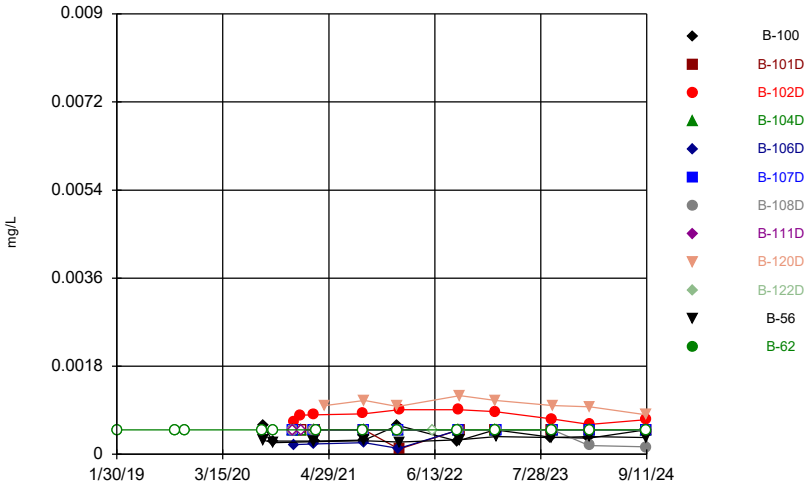
Time Series



Constituent: Boron Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

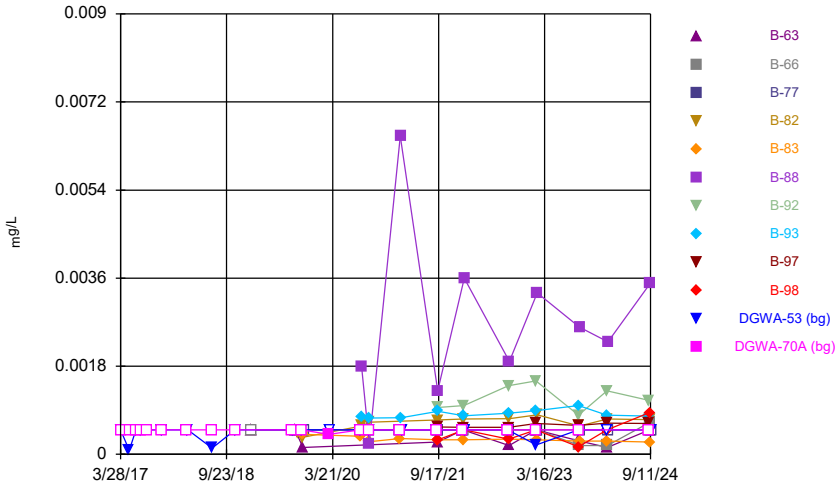
Time Series



Constituent: Cadmium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

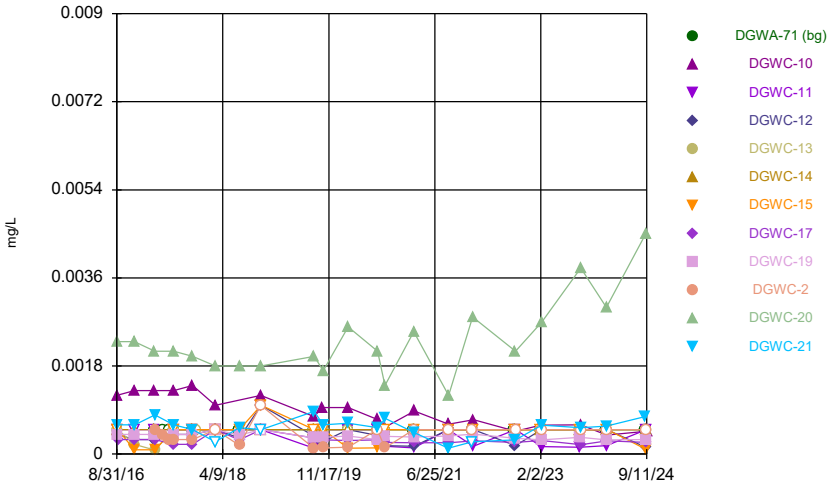
Time Series



Constituent: Cadmium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

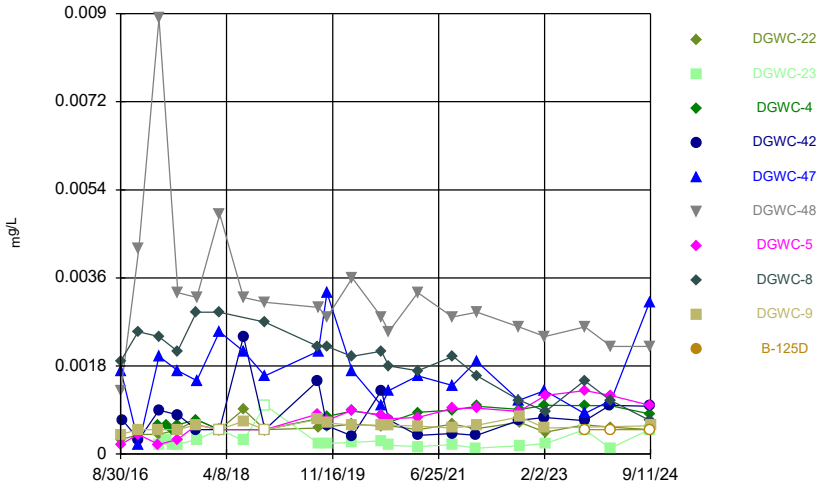
Time Series



Constituent: Cadmium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

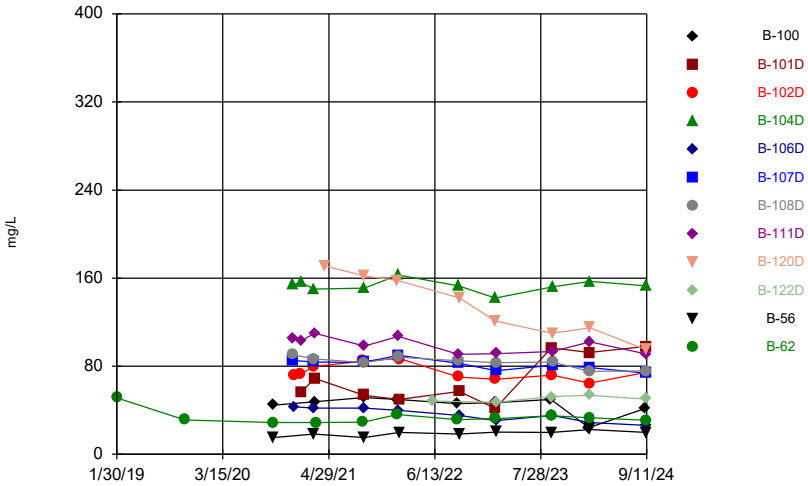
Time Series



Constituent: Cadmium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Time Series



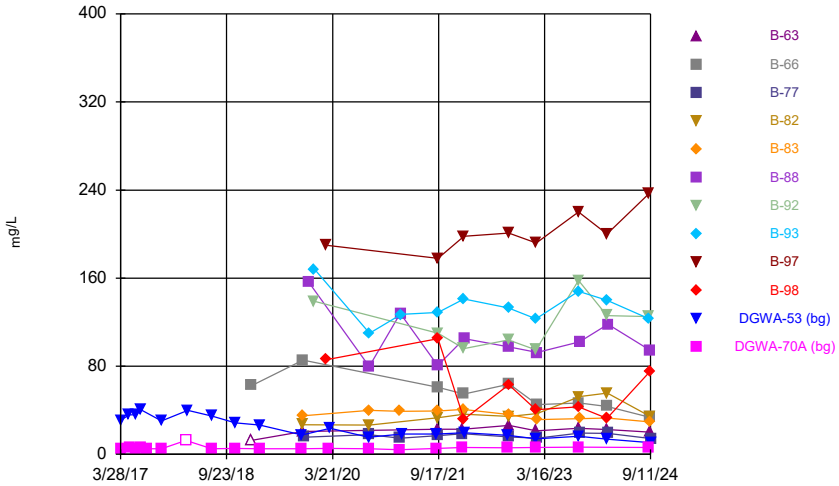
Constituent: Calcium Analysis Run 12/4/2024 11:44 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



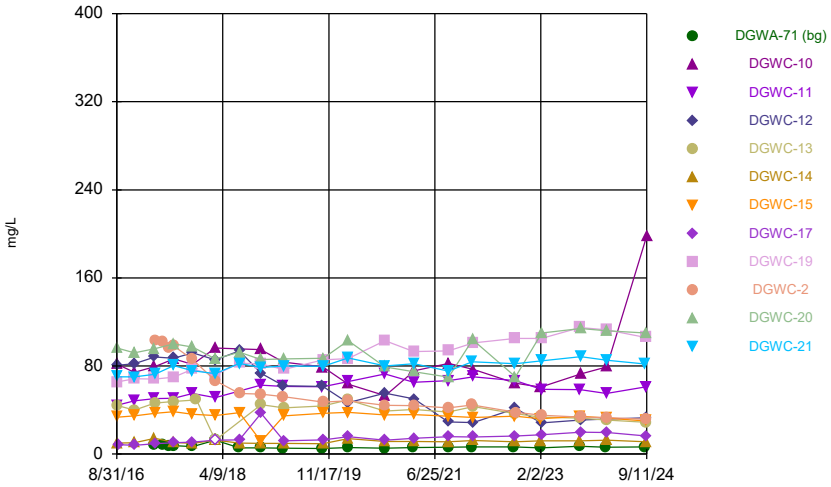
Constituent: Calcium Analysis Run 12/4/2024 11:44 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

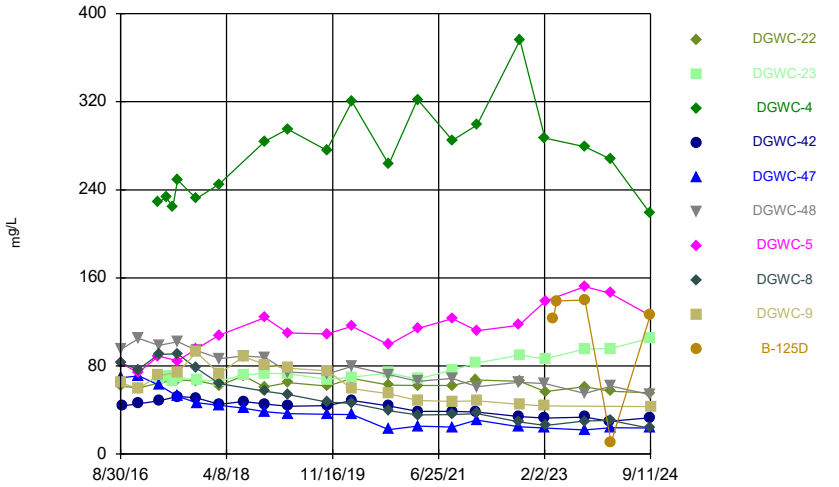


Constituent: Calcium Analysis Run 12/4/2024 11:44 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Time Series



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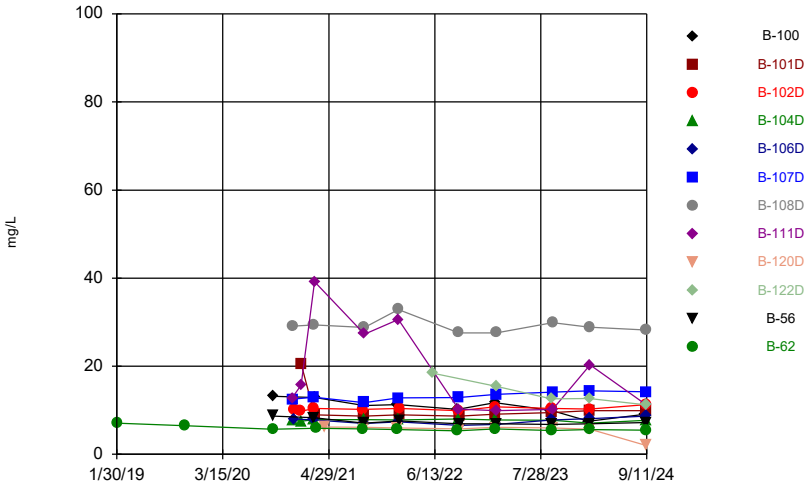
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

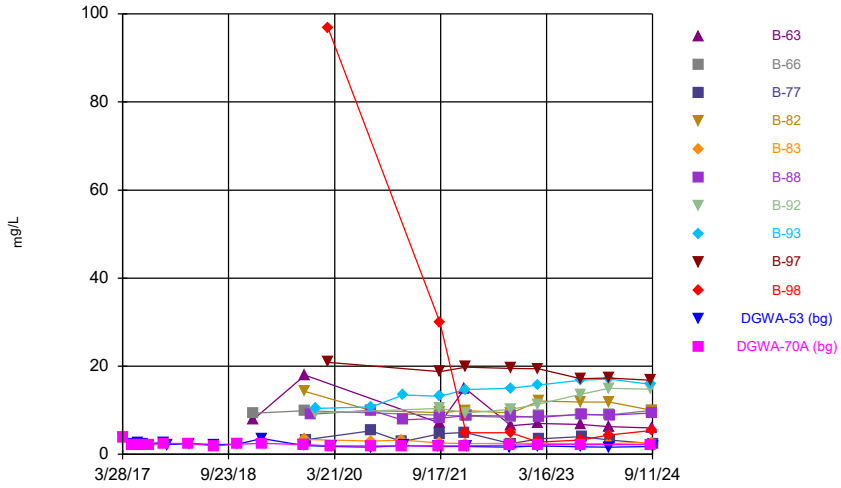
Time Series



Constituent: Chloride Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

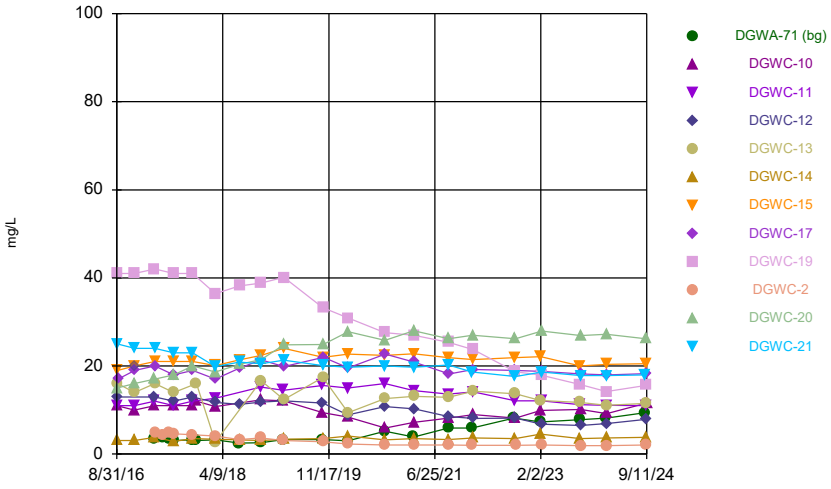
Time Series



Constituent: Chloride Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

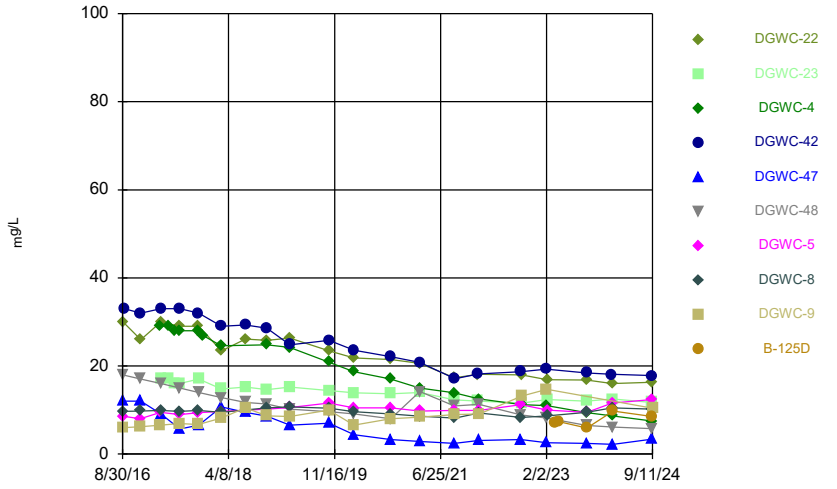
Time Series



Constituent: Chloride Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

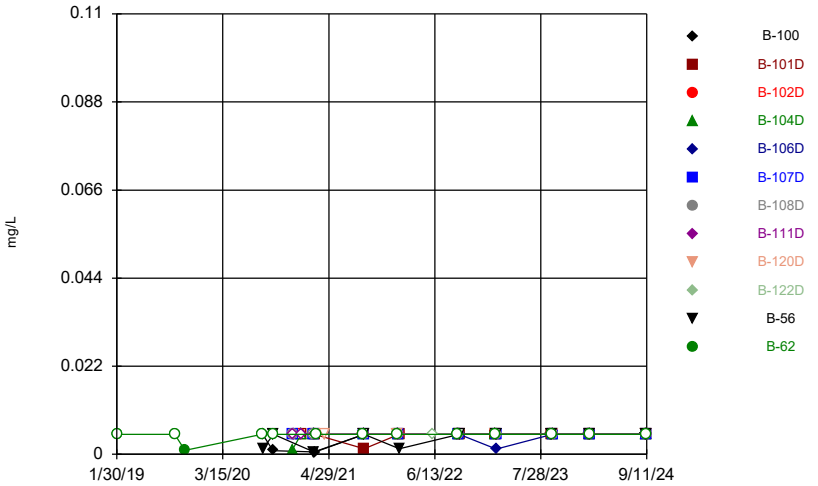
Time Series



Constituent: Chloride Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

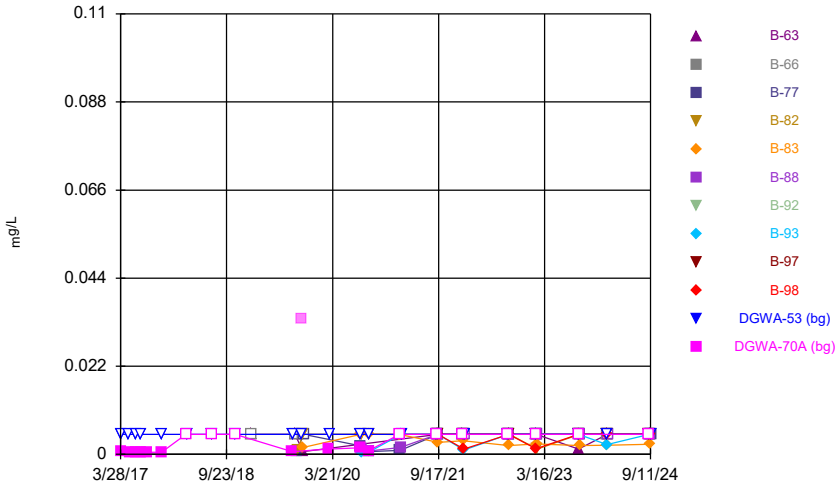
Time Series



Constituent: Chromium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

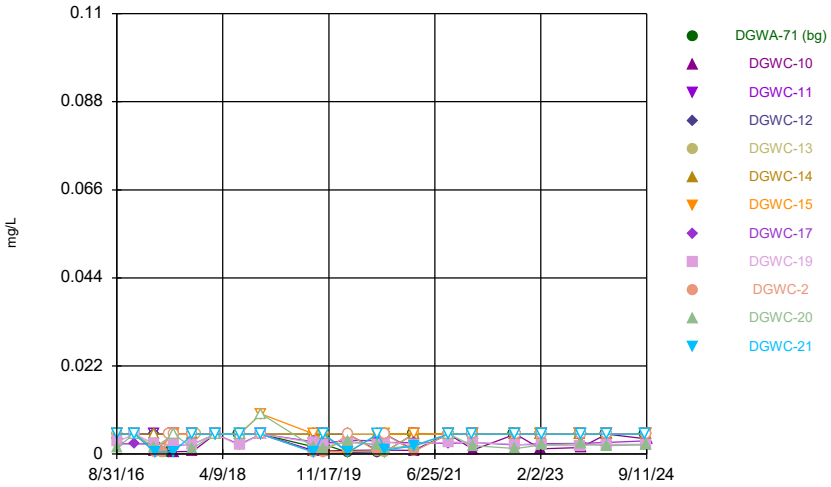
Time Series



Constituent: Chromium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

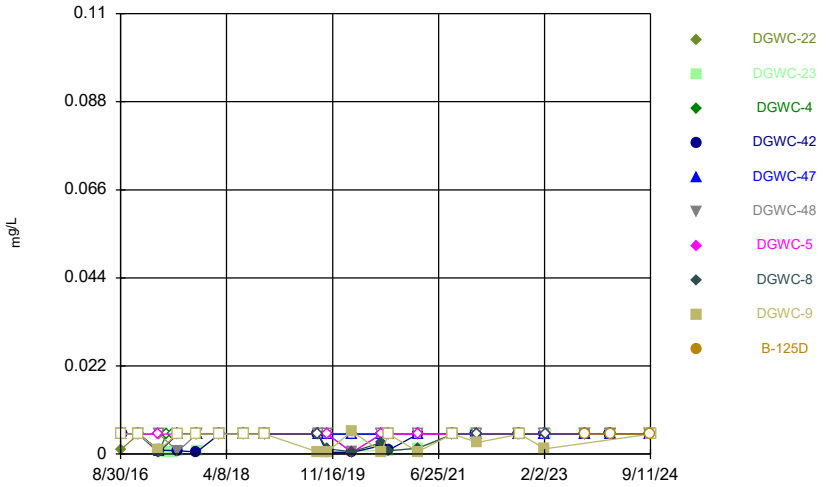
Time Series



Constituent: Chromium Analysis Run 12/4/2024 11:44 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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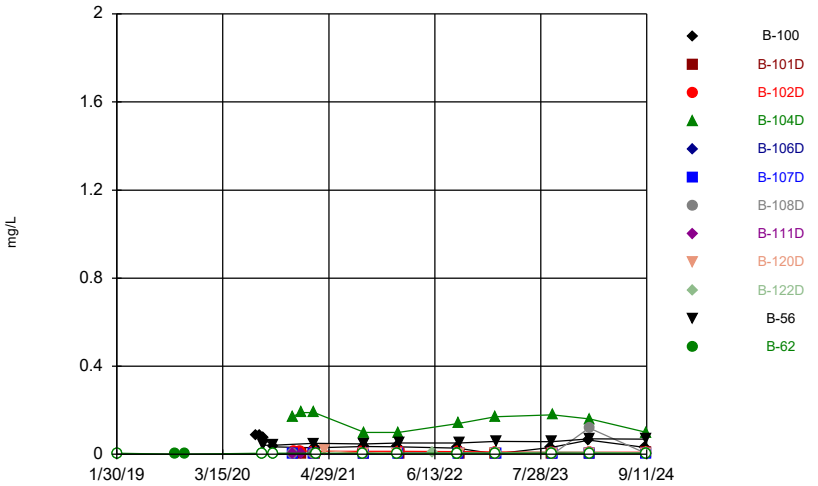
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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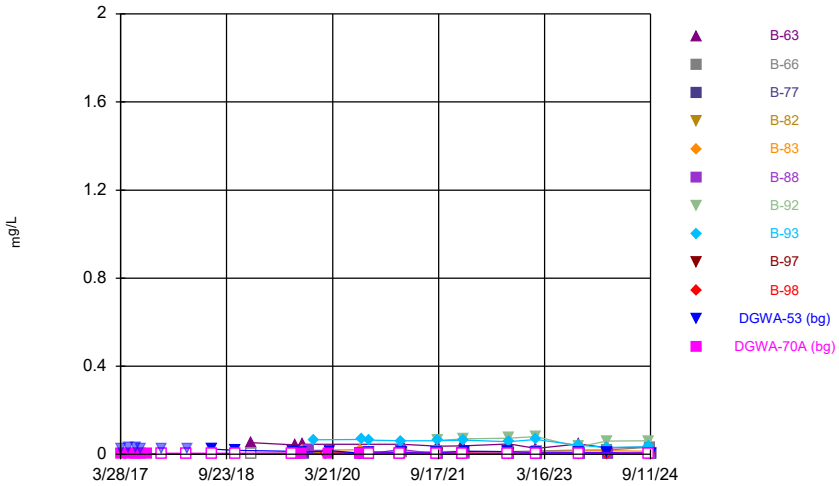
Hollow symbols indicate censored values.

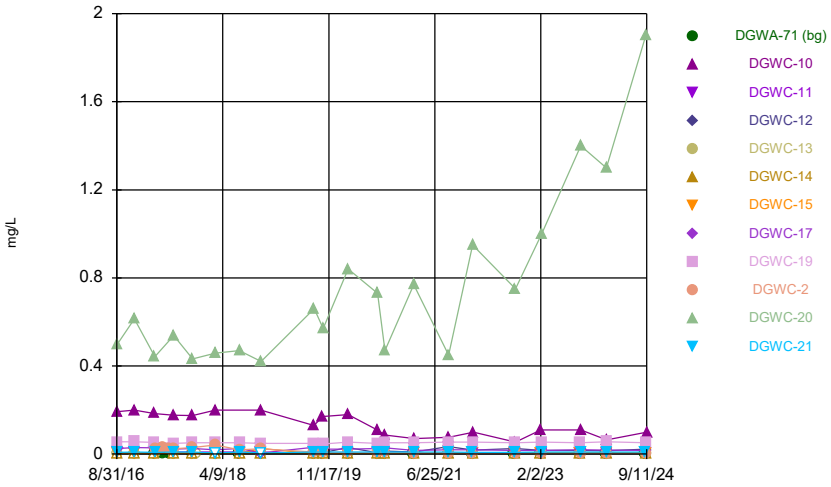
Time Series



Constituent: Cobalt Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

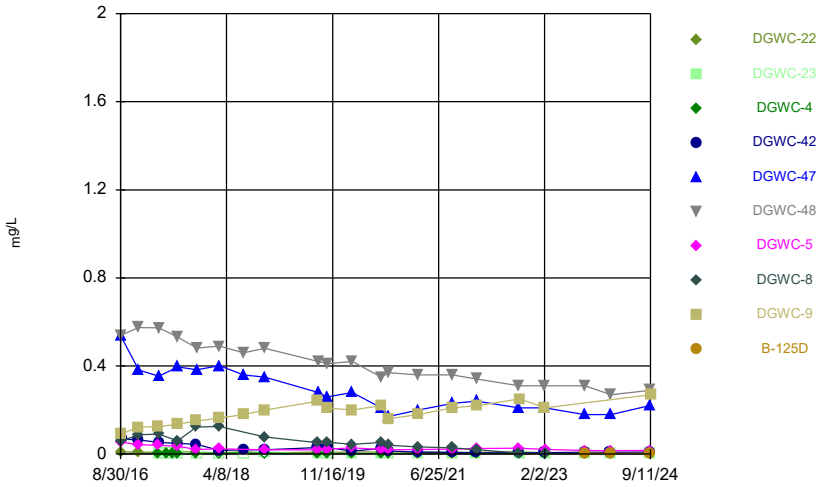
Time Series



Constituent: Cobalt Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

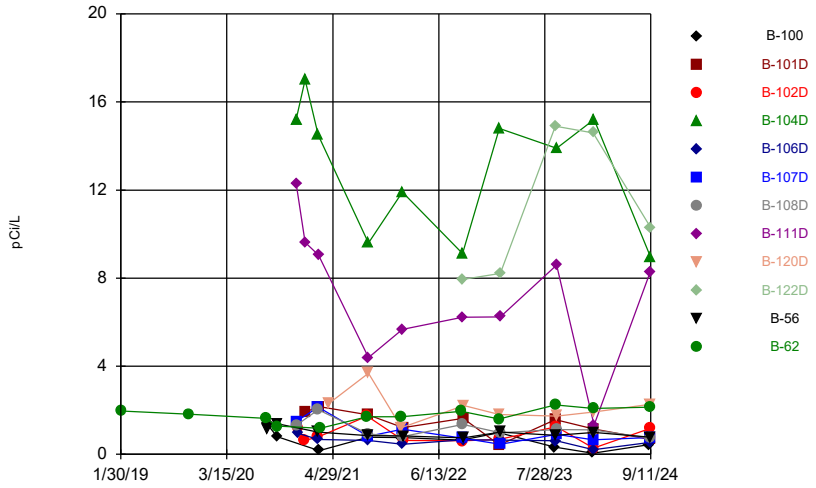
Time Series



Constituent: Cobalt Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

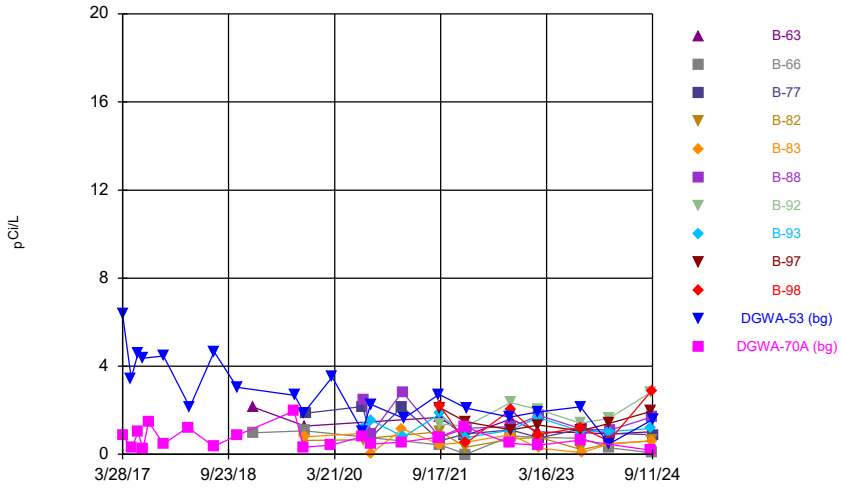
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

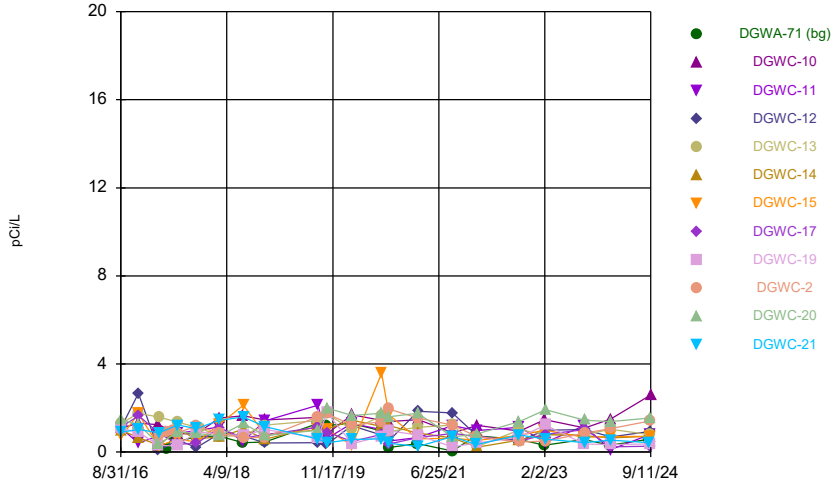
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

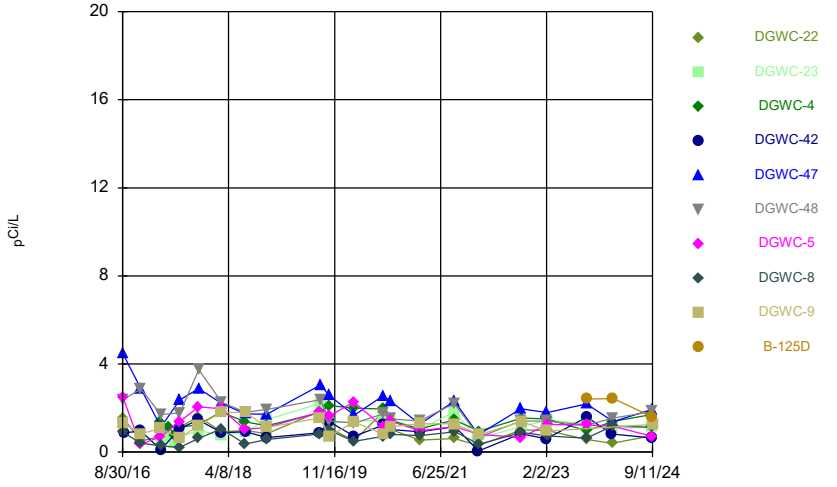
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

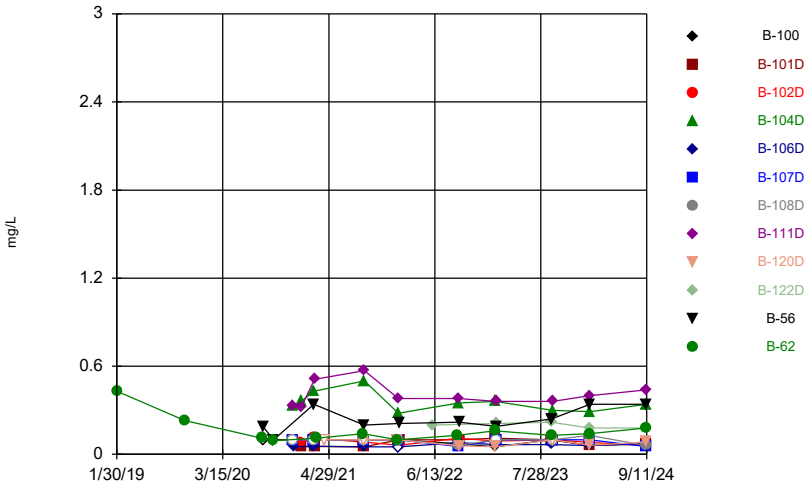
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

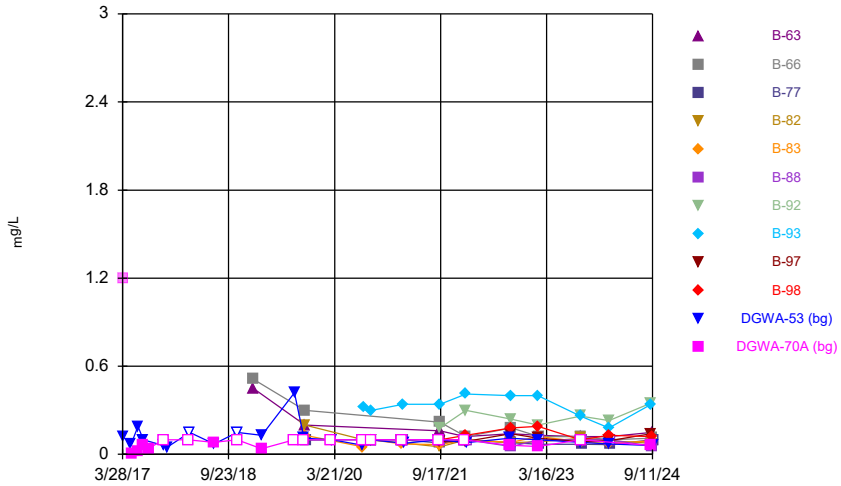
Time Series



Constituent: Fluoride Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

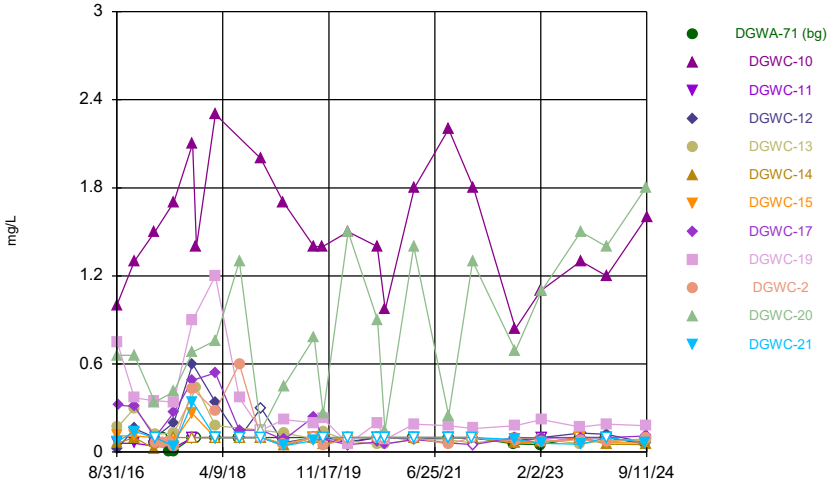
Time Series



Constituent: Fluoride Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

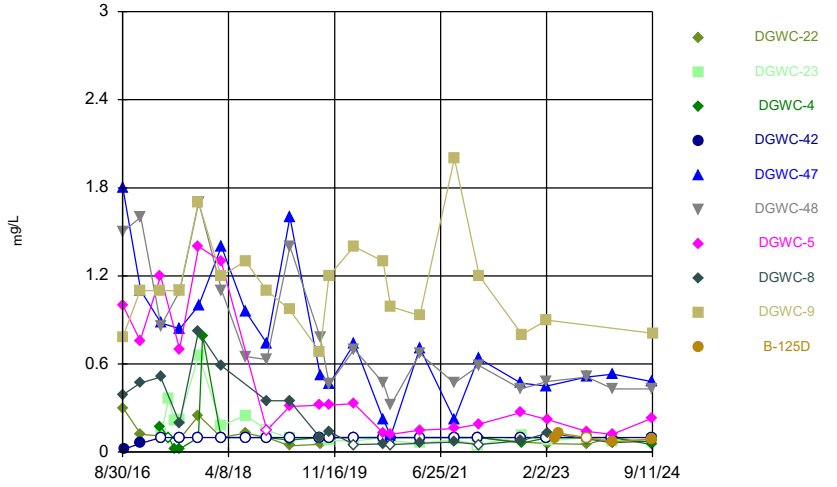
Time Series



Constituent: Fluoride Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 12/4/2024 11:45 AM View: AP 234
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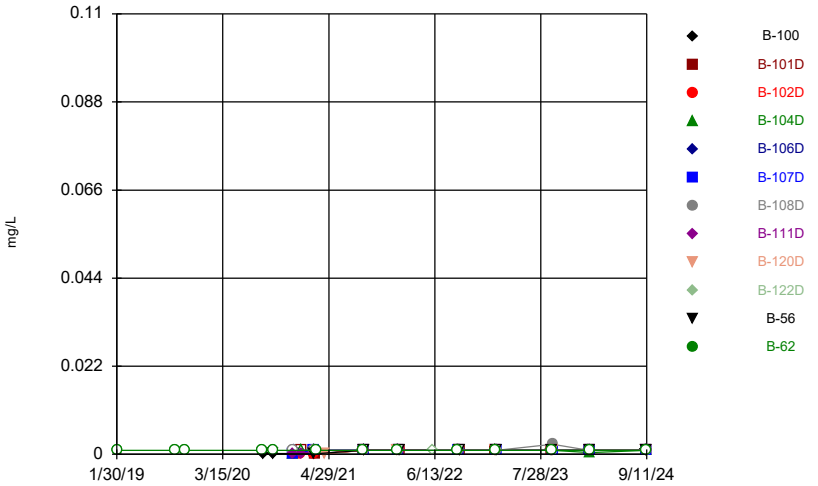
Time Series



Constituent: Lead Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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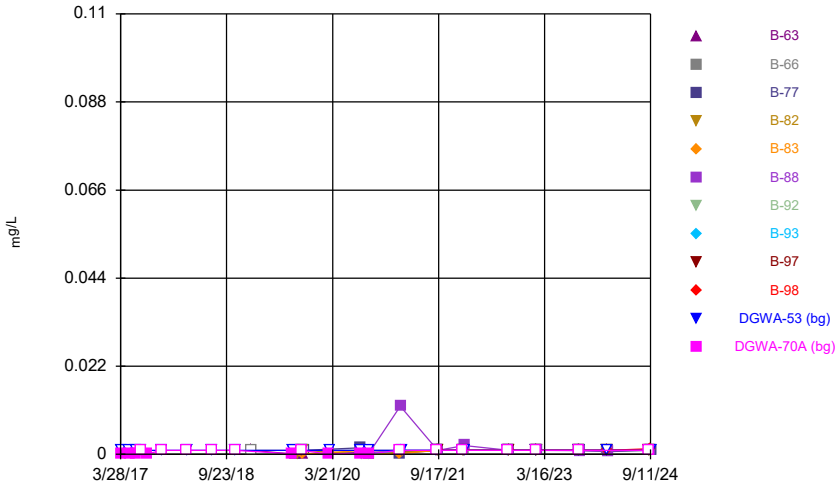
Hollow symbols indicate censored values.

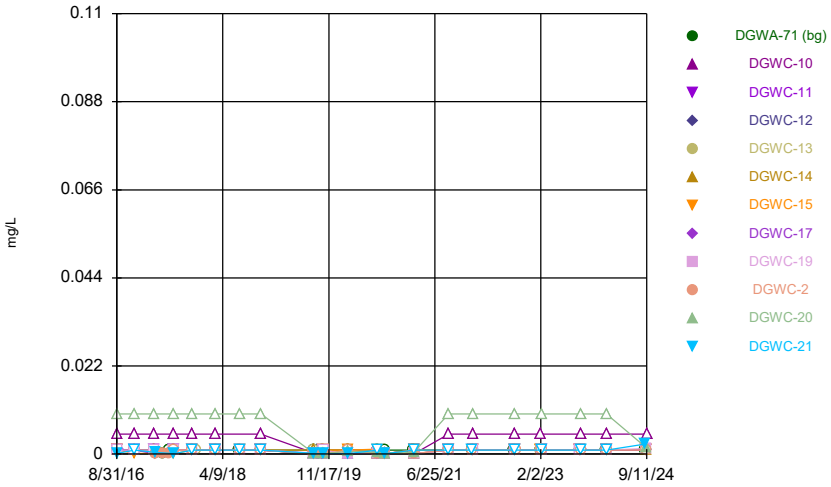
Time Series



Constituent: Lead Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

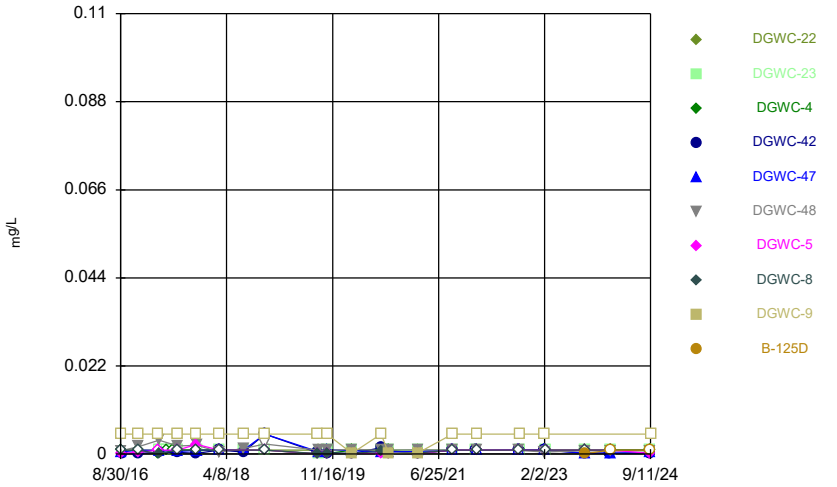
Time Series



Constituent: Lead Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

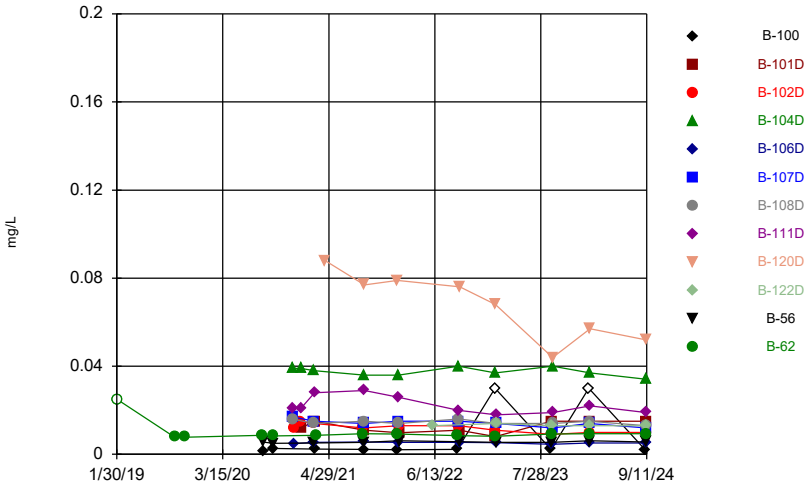
Time Series



Constituent: Lead Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

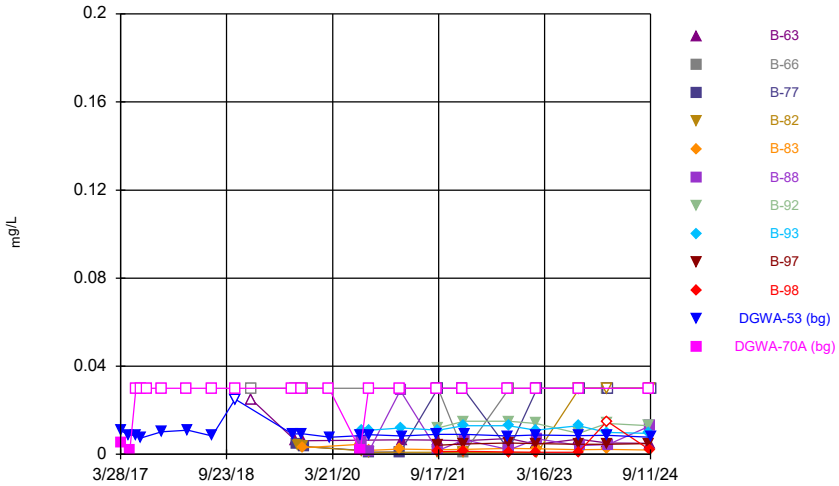
Time Series



Constituent: Lithium Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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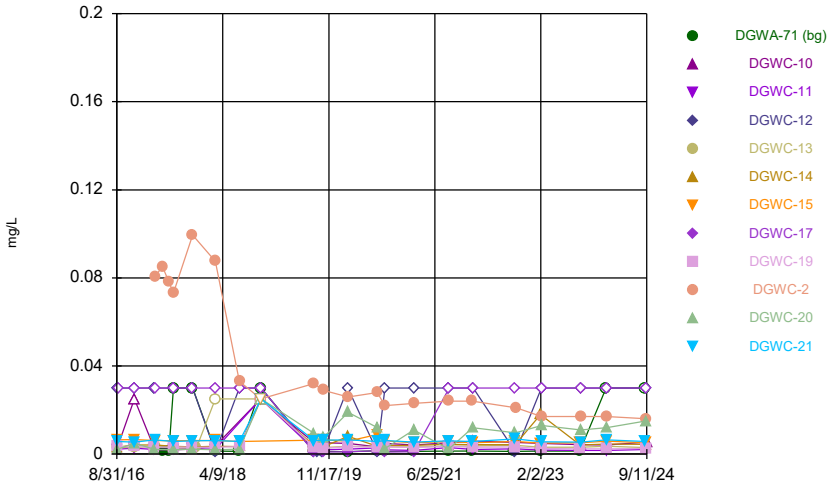
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
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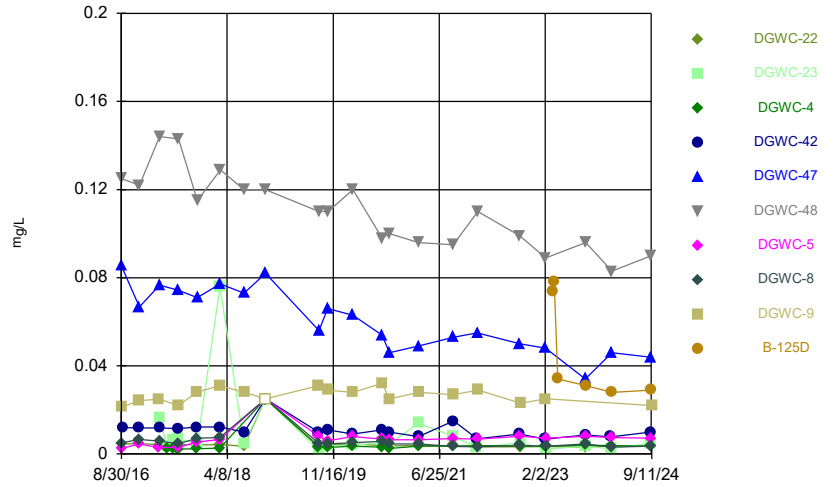

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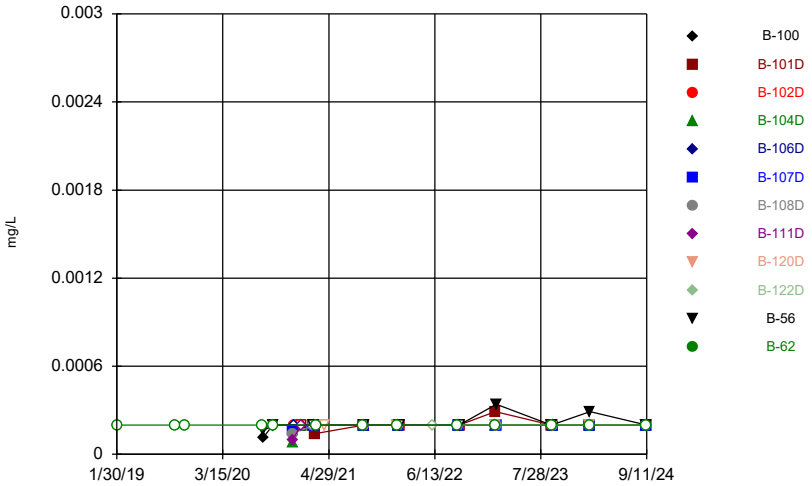
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

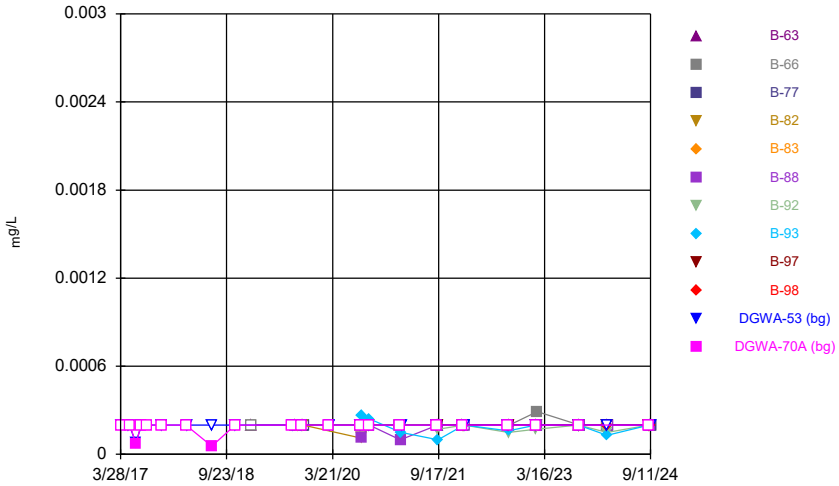
Time Series



Constituent: Mercury Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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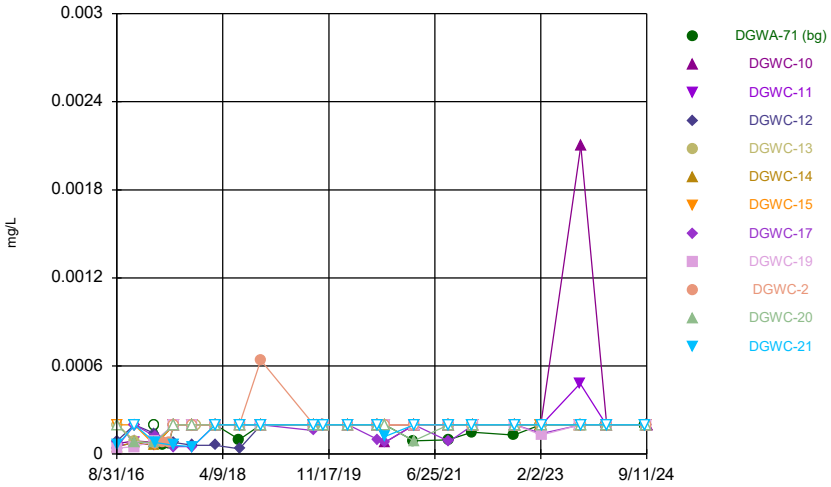
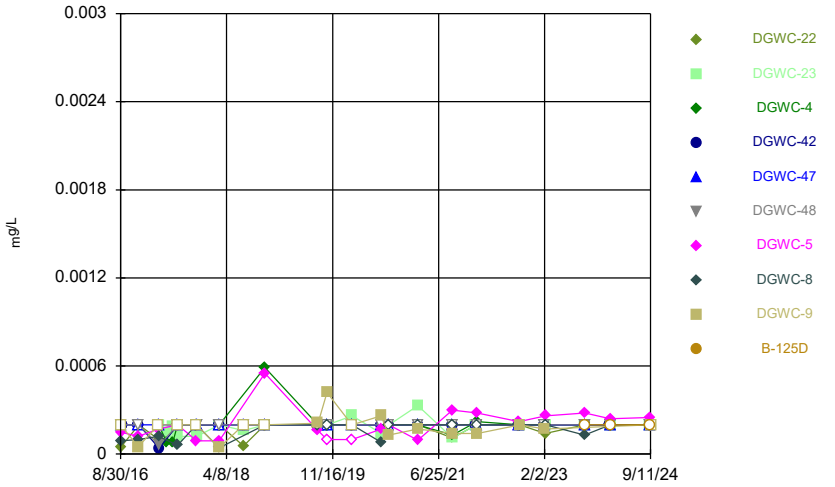


Constituent: Mercury Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

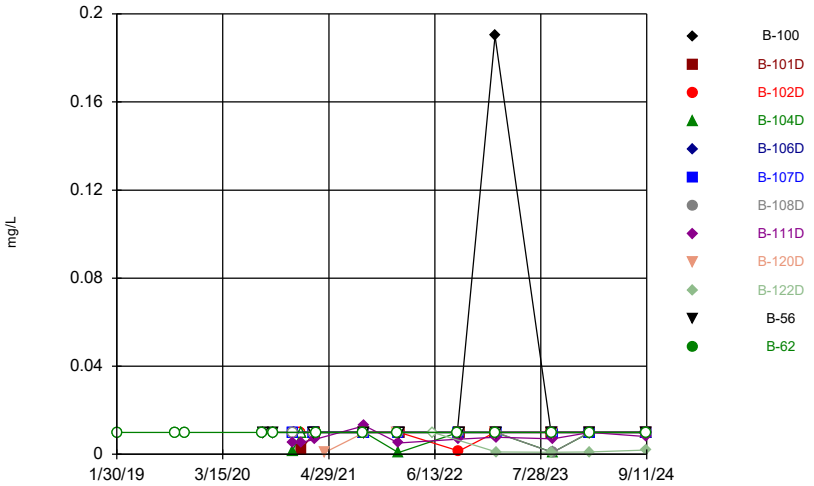
Time Series



Constituent: Mercury Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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Hollow symbols indicate censored values.

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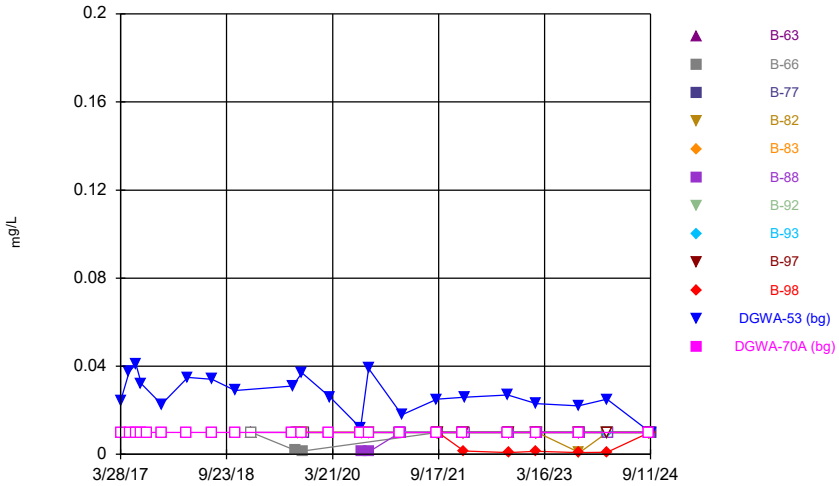

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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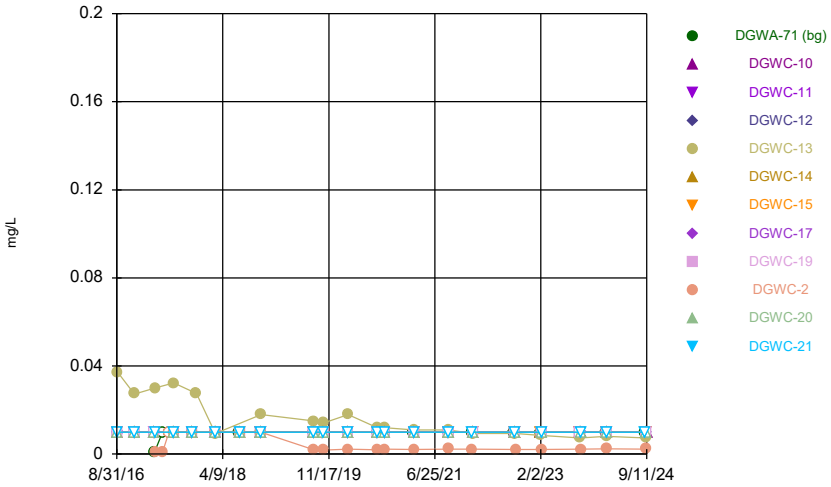

Constituent: Molybdenum Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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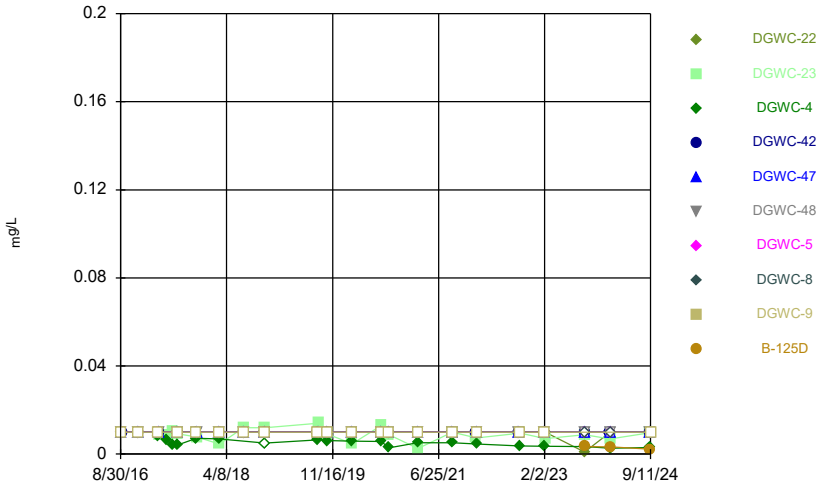
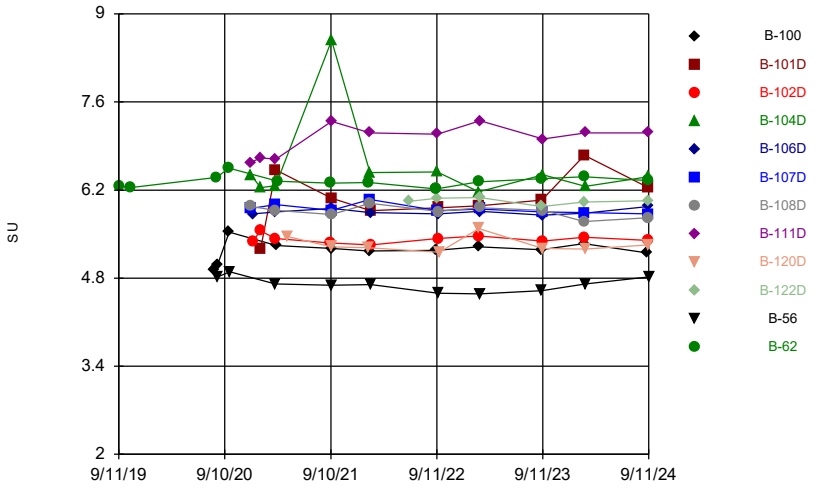


Constituent: Molybdenum Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

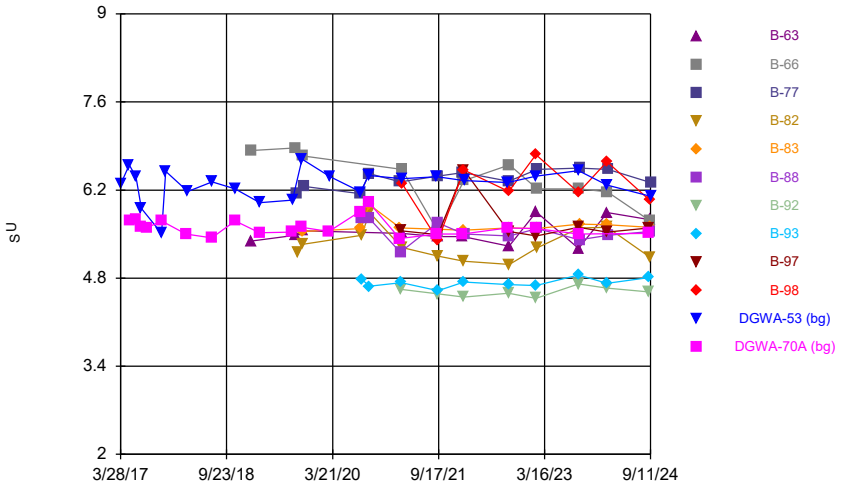
Time Series



Constituent: pH, Field Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

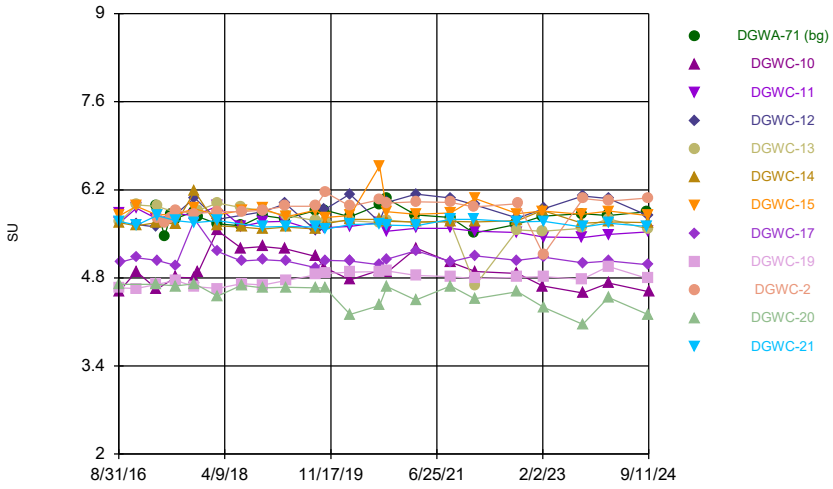
Time Series



Constituent: pH, Field Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

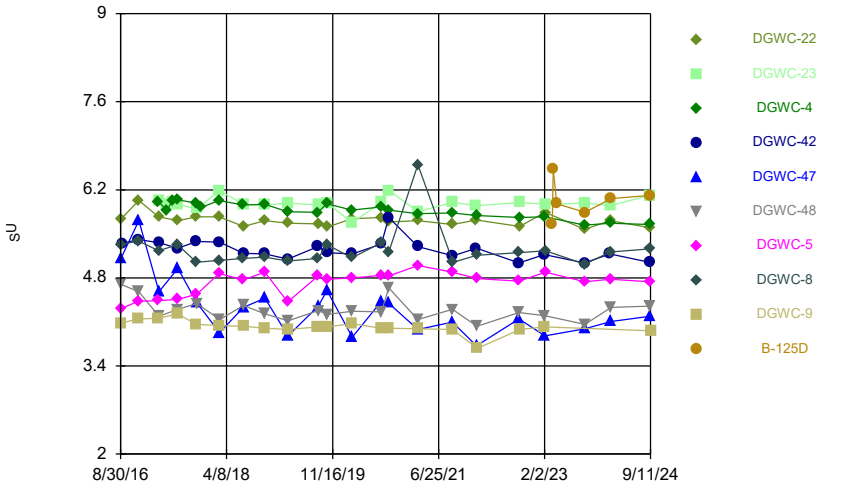
Time Series



Constituent: pH, Field Analysis Run 12/4/2024 11:45 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: pH, Field Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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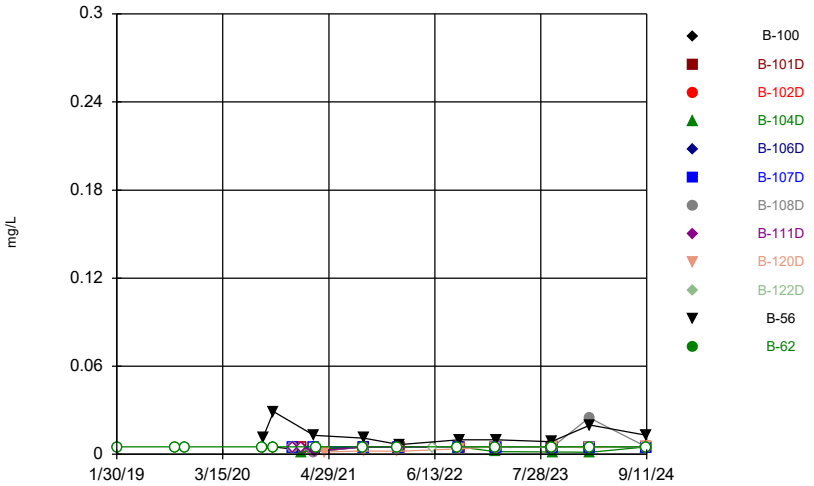
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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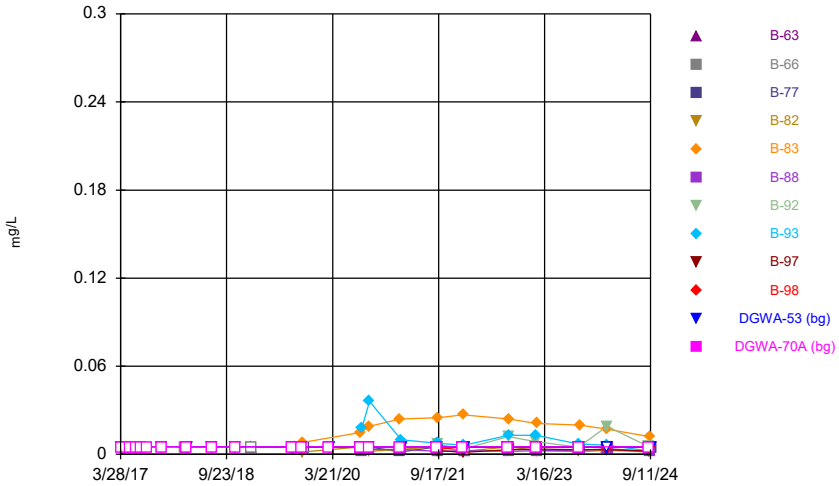

Constituent: Selenium Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
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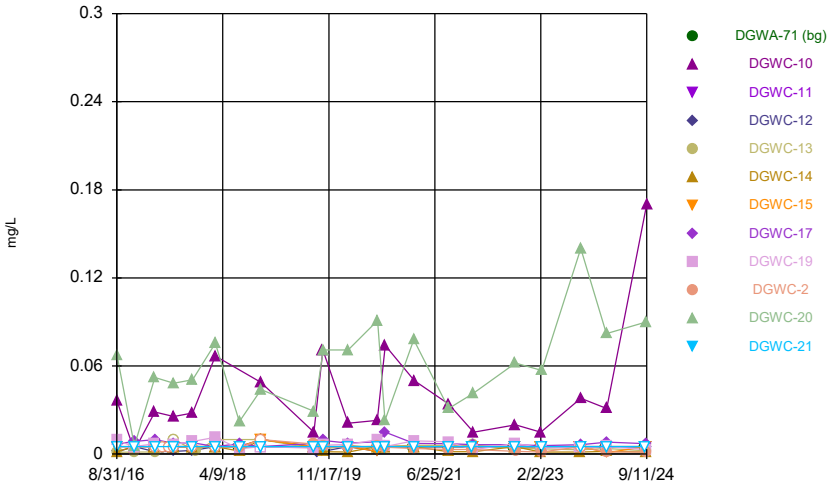

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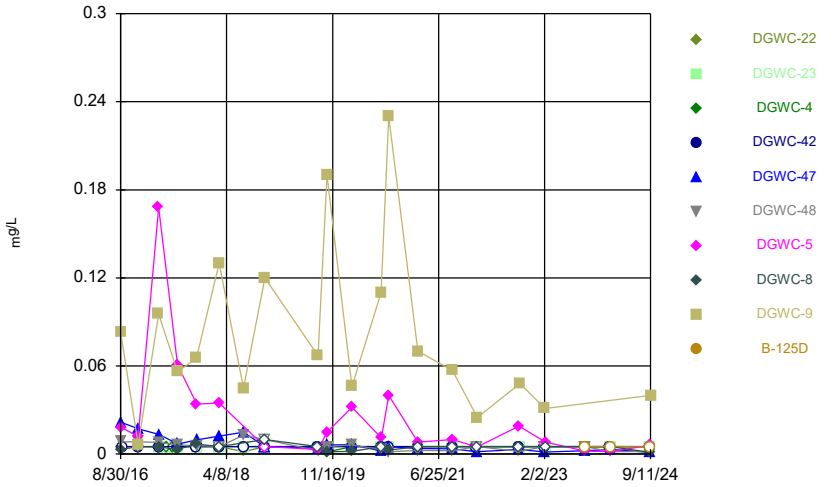
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

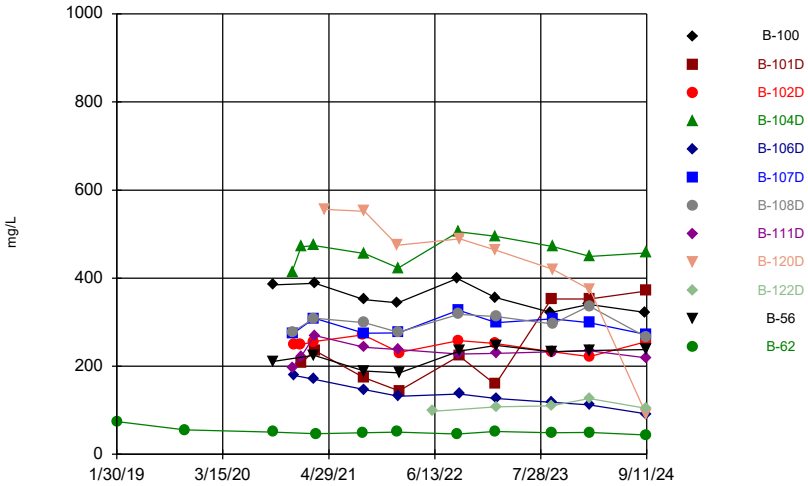
Time Series



Constituent: Selenium Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

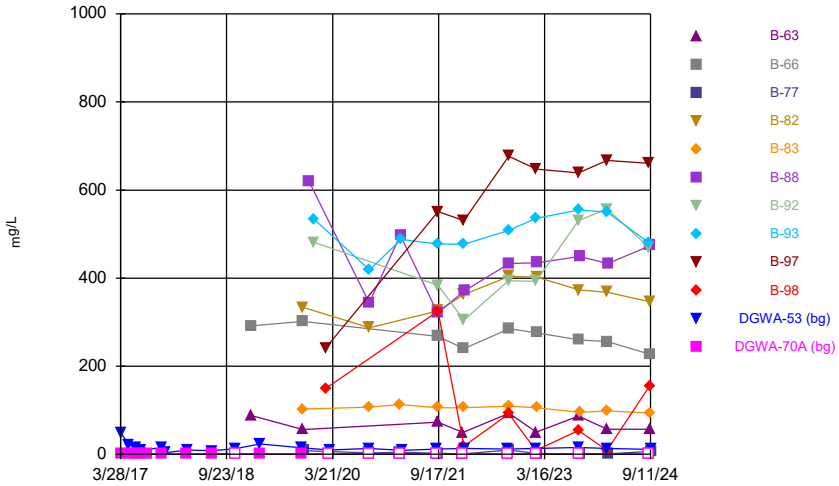
Time Series



Constituent: Sulfate Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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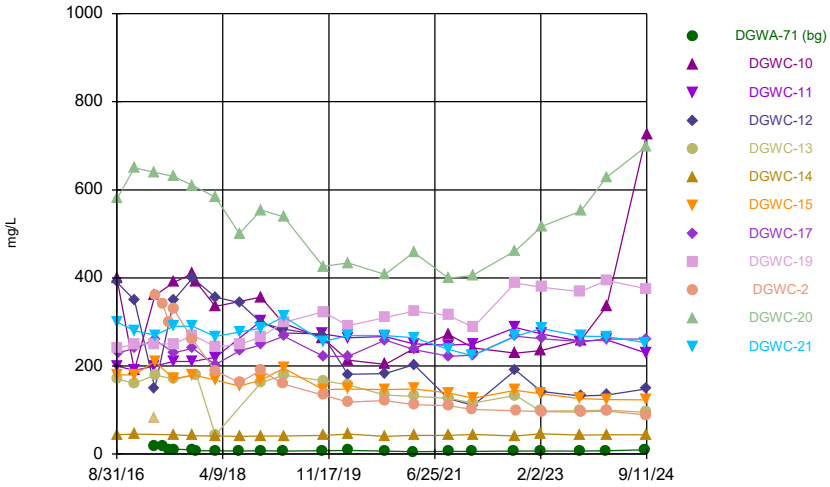
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

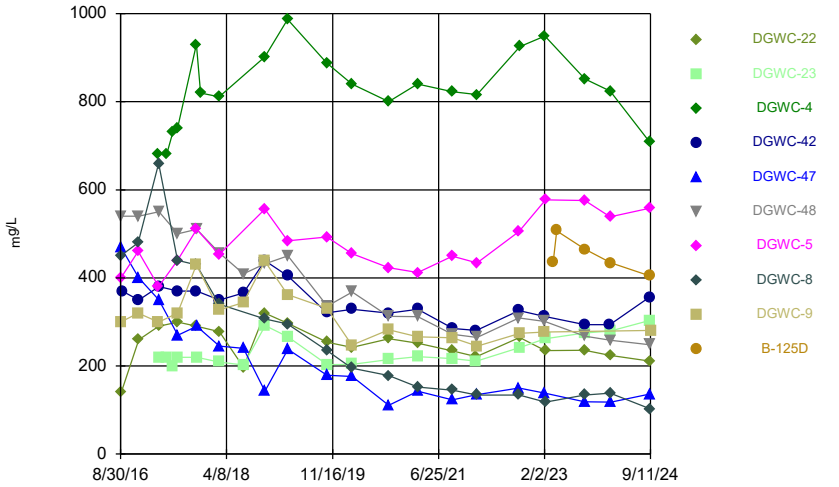
Time Series



Constituent: Sulfate Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Time Series



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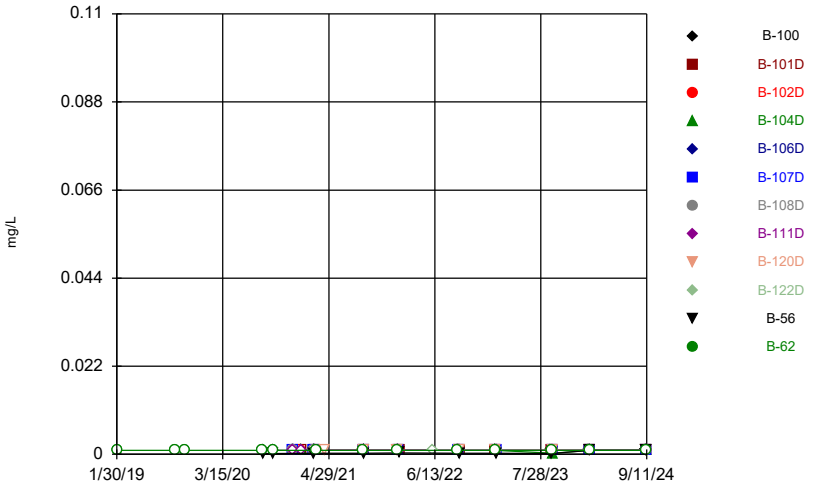
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

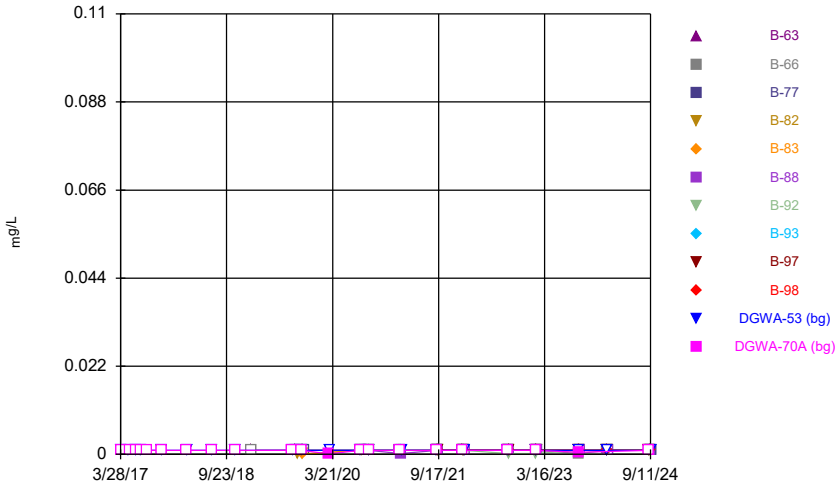
Time Series



Constituent: Thallium Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 12/4/2024 11:46 AM View: AP 234
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Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
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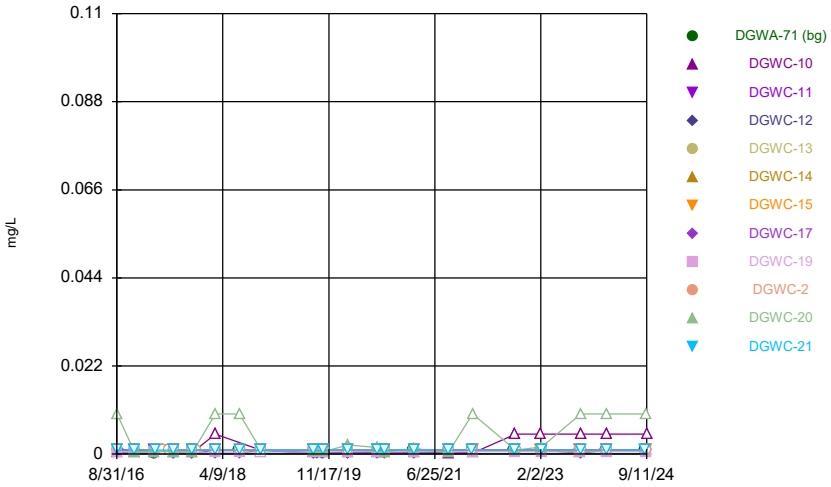

Constituent: Thallium Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
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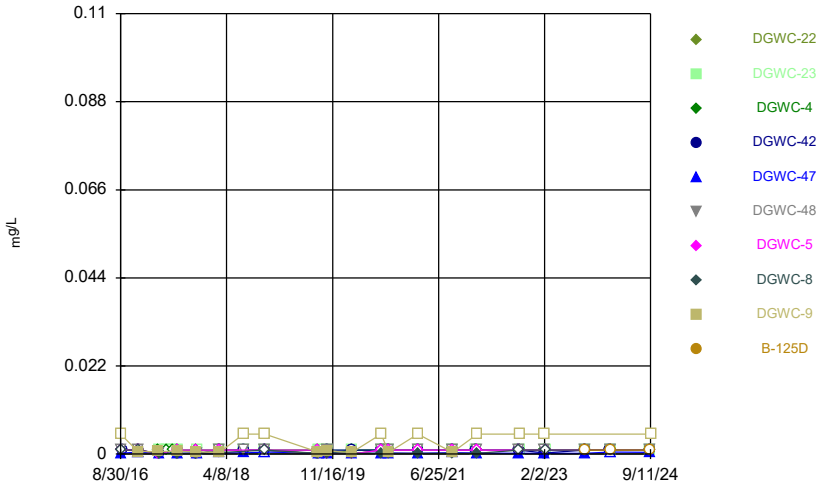
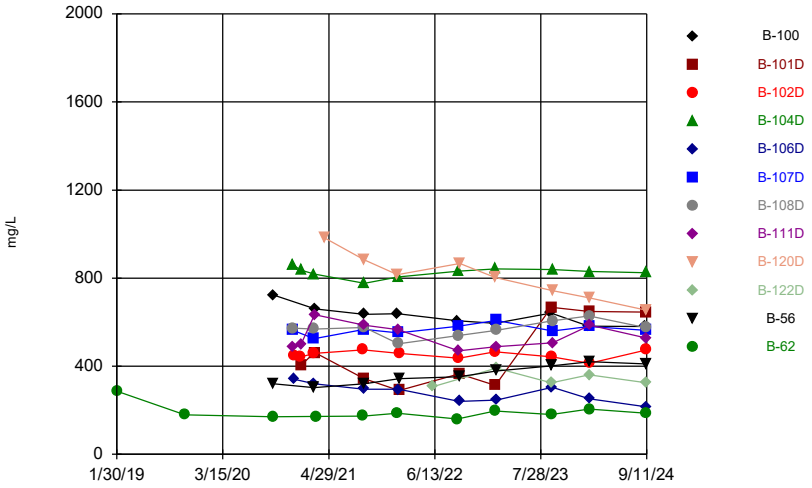
Time Series



Constituent: Thallium Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

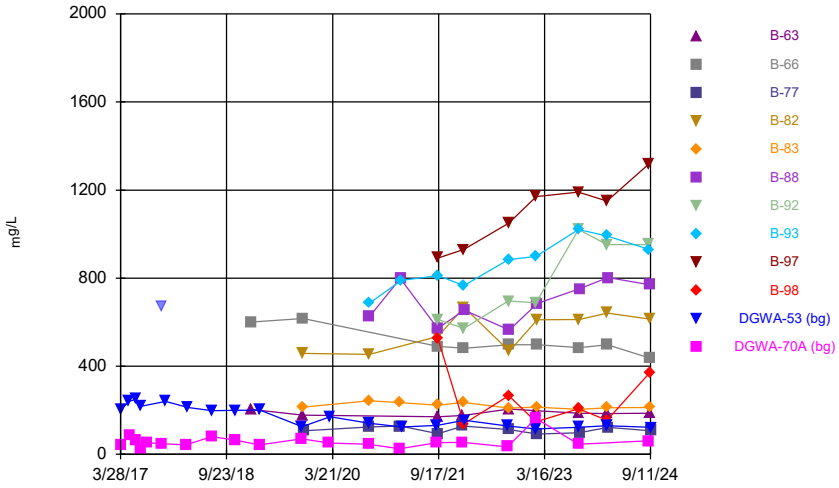
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

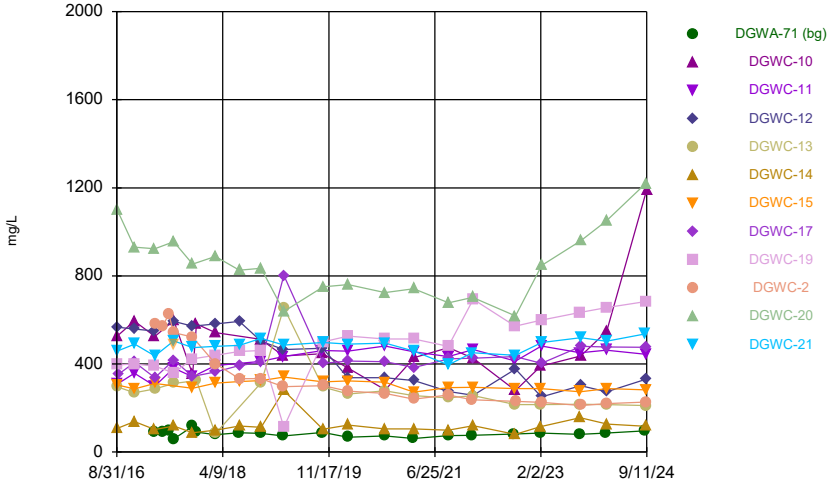
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

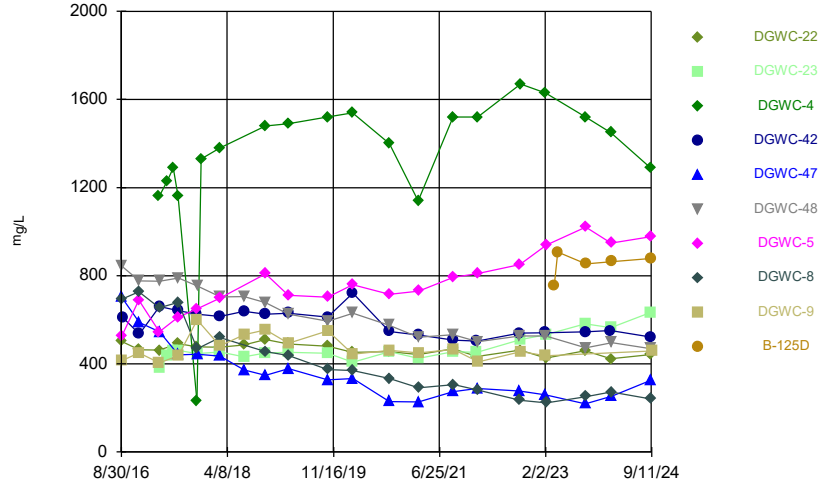
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:46 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0013 (J)								
9/24/2020									
9/25/2020	<0.003								
9/28/2020									
12/9/2020				0.00079 (J)		<0.003	<0.003	<0.003	
12/17/2020			0.0016 (J)		0.00048 (J)				
1/11/2021			<0.003						
1/12/2021		0.00039 (J)		0.00048 (J)				<0.003	
3/3/2021									
3/4/2021			<0.003	0.00077 (J)	<0.003	<0.003	<0.003		
3/5/2021		0.0019 (J)						0.0006 (J)	
3/8/2021	0.0017 (J)								
3/12/2021									
4/15/2021									0.00029 (J)
9/9/2021									
9/10/2021			<0.003						
9/13/2021	<0.003	0.001 (J)			<0.003	<0.003			
9/14/2021				<0.003			<0.003	<0.003	<0.003
1/20/2022									<0.003
1/21/2022	<0.003								
1/24/2022				0.001 (J)		<0.003	<0.003	<0.003	
1/25/2022					<0.003				
1/26/2022		0.00082 (J)							
1/27/2022			<0.003						
6/6/2022									
9/8/2022	<0.003								
9/13/2022				<0.003					
9/14/2022						<0.003		<0.003	
9/15/2022			<0.003				<0.003		
9/16/2022		<0.003			<0.003				
9/19/2022									<0.003
2/2/2023	<0.003		<0.003						
2/3/2023		<0.003		<0.003					<0.003
2/6/2023						<0.003			
2/7/2023					<0.003		<0.003	<0.003	
9/6/2023	<0.003								
9/7/2023									
9/8/2023		<0.003							
9/11/2023			<0.003		<0.003				
9/12/2023						<0.003			<0.003
9/13/2023				<0.003			<0.003	0.0016 (J)	
1/31/2024	<0.003								
2/1/2024						<0.003	<0.003		
2/2/2024		0.00062 (J)	0.001 (J)		<0.003				
2/5/2024				<0.003				<0.003	<0.003
9/5/2024	<0.003								
9/9/2024					<0.003	<0.003	<0.003	<0.003	<0.003
9/10/2024		<0.003	<0.003	<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.003
9/11/2019			<0.003
10/21/2019			<0.003
8/13/2020			<0.003
8/17/2020		<0.003	
9/24/2020			0.00046 (J)
9/25/2020			
9/28/2020		<0.003	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.003	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.003
4/15/2021			
9/9/2021			<0.003
9/10/2021			
9/13/2021		<0.003	
9/14/2021			
1/20/2022			<0.003
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0011 (J)	
6/6/2022	<0.003		
9/8/2022			<0.003
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.003	
9/19/2022			
2/2/2023			<0.003
2/3/2023			
2/6/2023	<0.003		
2/7/2023		<0.003	
9/6/2023			
9/7/2023	<0.003		<0.003
9/8/2023		<0.003	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.0006 (J)		<0.003
2/2/2024			
2/5/2024		<0.003	
9/5/2024			
9/9/2024			<0.003
9/10/2024	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.003								
1/30/2019		<0.003							
8/27/2019									
8/28/2019									
9/11/2019	<0.003								
9/12/2019		<0.003							
9/18/2019			<0.003						
9/23/2019				<0.003					
10/15/2019									
10/16/2019									
10/21/2019		<0.003		<0.003	<0.003				
10/22/2019	0.00066 (J)								
10/24/2019			<0.003						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.00043 (J)						
8/14/2020					<0.003				
8/17/2020				<0.003		<0.003			
8/19/2020								<0.003	
9/22/2020									
9/24/2020			0.00036 (J)						
9/25/2020					<0.003	<0.003			
9/28/2020				<0.003				0.0014 (J)	
3/1/2021									
3/4/2021			0.00063 (J)		<0.003				
3/5/2021						<0.003			
3/9/2021								<0.003	
3/12/2021									
9/9/2021									
9/13/2021						<0.003			
9/14/2021	<0.003	<0.003	<0.003	<0.003					
9/15/2021							<0.003	<0.003	<0.003
9/16/2021					<0.003				
1/18/2022									
1/20/2022	<0.003		<0.003						
1/21/2022					<0.003				
1/25/2022		<0.003		<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.003	<0.003	<0.003
1/27/2022						<0.003			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.003	0.00096 (J)	
9/13/2022			<0.003		<0.003				<0.003
9/14/2022	<0.003								
9/16/2022		<0.003		<0.003		<0.003			
1/31/2023							<0.003	0.0015 (J)	
2/1/2023									<0.003
2/2/2023	<0.003								
2/3/2023					<0.003				
2/6/2023			<0.003						
2/7/2023		<0.003		<0.003		<0.003			
9/6/2023							<0.003	<0.003	<0.003
9/7/2023	<0.003								
9/11/2023		<0.003		<0.003					
9/12/2023			<0.003		<0.003	<0.003			
1/30/2024							<0.003	<0.003	
1/31/2024									<0.003
2/1/2024	<0.003	<0.003		<0.003	<0.003				
2/5/2024			<0.003			<0.003			
9/4/2024							<0.003	<0.003	<0.003
9/5/2024									
9/6/2024	<0.003				<0.003				
9/9/2024		<0.003		<0.003					
9/10/2024						<0.003			
9/11/2024			<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.003	<0.003
5/11/2017		<0.003	
5/15/2017			<0.003
6/15/2017		0.0006 (J)	<0.003
7/11/2017			<0.003
7/12/2017		<0.003	
8/8/2017			<0.003
10/24/2017		<0.003	<0.003
2/27/2018			<0.003
3/8/2018		<0.003	
7/10/2018			<0.003
7/12/2018		<0.003	
11/6/2018			<0.003
11/7/2018		<0.003	
1/28/2019			
1/30/2019			
8/27/2019			<0.003
8/28/2019		<0.003	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.003
10/16/2019		<0.003	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.003
3/9/2020		<0.003	
8/11/2020			0.0013 (J)
8/13/2020		0.0003 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.003	<0.003
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.003
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.003	
9/9/2021		<0.003	0.0015 (J)
9/13/2021			
9/14/2021			
9/15/2021	<0.003		
9/16/2021			
1/18/2022			<0.003
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.003		
1/27/2022			
1/28/2022		<0.003	
9/7/2022			<0.003
9/8/2022		<0.003	
9/12/2022			
9/13/2022	<0.003		
9/14/2022			
9/16/2022			
1/31/2023	0.001 (J)		<0.003
2/1/2023		<0.003	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.003		<0.003
9/7/2023		<0.003	
9/11/2023			
9/12/2023			
1/30/2024	<0.003	<0.003	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.003
9/5/2024	<0.003		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.003	<0.003			<0.003			
9/1/2016				<0.003					<0.003
9/2/2016									
9/6/2016					<0.003		<0.003		
9/7/2016								<0.003	
12/6/2016		<0.003	<0.003			<0.003			
12/7/2016				<0.003	<0.003		<0.003		<0.003
12/8/2016								<0.003	
3/28/2017	0.0007 (J)								
3/29/2017		<0.003	<0.003	<0.003		<0.003			<0.003
3/30/2017					<0.003		<0.003	<0.003	
5/11/2017									
5/12/2017	<0.003								
6/15/2017									
6/16/2017	0.0007 (J)								
7/11/2017	<0.003								
7/12/2017		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/24/2017	<0.003	<0.003	<0.003						
10/25/2017				<0.003		<0.003	<0.003	<0.003	<0.003
11/15/2017					<0.003				
2/27/2018	<0.003	<0.003	<0.003	<0.003		<0.003			
2/28/2018					<0.003		<0.003	<0.003	<0.003
7/10/2018	<0.003								
7/11/2018				<0.003		<0.003	<0.003	<0.003	<0.003
11/6/2018	<0.003	<0.003	<0.003						
11/7/2018				<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/27/2019	<0.003	<0.003	<0.003	<0.003		<0.003		<0.003	
8/28/2019					<0.003		0.00033 (J)		<0.003
8/29/2019									
9/17/2019				<0.003					
10/15/2019	<0.003	<0.003	<0.003	<0.003					
10/16/2019					<0.003	<0.003			<0.003
10/17/2019							<0.003		
10/18/2019								<0.003	
3/2/2020	0.0018 (J)		<0.003	0.0003 (J)					
3/3/2020		<0.003			<0.003	<0.003	<0.003		<0.003
3/4/2020								<0.003	
8/11/2020	0.0018 (J)	<0.003	<0.003	<0.003		<0.003			<0.003
8/12/2020					<0.003				
8/13/2020							0.00073 (J)		
8/14/2020								<0.003	
9/22/2020	<0.003		<0.003	<0.003		0.0011 (J)			0.00036 (J)
9/23/2020					<0.003		<0.003		
9/24/2020		<0.003						0.00045 (J)	
3/1/2021	0.0019 (J)								
3/2/2021			<0.003		<0.003	<0.003	<0.003		<0.003
3/3/2021				<0.003				<0.003	
3/4/2021		<0.003							
9/8/2021	<0.003								
9/9/2021			<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
9/10/2021		<0.003							
9/13/2021								<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.003								
1/20/2022									
1/21/2022									
1/24/2022							<0.003	<0.003	
1/25/2022			<0.003	<0.003	<0.003	<0.003			<0.003
1/26/2022		0.0021 (J)							
9/7/2022	<0.003								
9/13/2022						<0.003	<0.003		
9/14/2022								<0.003	<0.003
9/15/2022		<0.003	<0.003	<0.003	<0.003				
9/20/2022									
1/31/2023	<0.003								
2/1/2023					<0.003	0.001 (J)			
2/2/2023		<0.003					<0.003		
2/6/2023			<0.003	<0.003				<0.003	<0.003
2/7/2023									
9/6/2023	0.0045								
9/8/2023			<0.003		<0.003	<0.003	<0.003		0.0013 (J)
9/11/2023		<0.003		<0.003					
9/13/2023								<0.003	
1/30/2024	<0.003								
1/31/2024					<0.003				
2/1/2024			<0.003						<0.003
2/2/2024		<0.003		<0.003					
2/5/2024						<0.003	<0.003		
2/6/2024								<0.003	
9/4/2024	<0.003								
9/5/2024				<0.003	<0.003		<0.003		<0.003
9/9/2024			<0.003						
9/10/2024						<0.003		<0.003	
9/11/2024		<0.003							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.003	<0.003
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.003	
12/8/2016			<0.003
3/28/2017			
3/29/2017		<0.003	
3/30/2017	<0.003		<0.003
5/11/2017	<0.003		
5/12/2017			
6/15/2017	0.0006 (J)		
6/16/2017			
7/11/2017	<0.003		
7/12/2017		<0.003	<0.003
10/24/2017	<0.003		
10/25/2017		<0.003	<0.003
11/15/2017			
2/27/2018	<0.003		
2/28/2018		<0.003	<0.003
7/10/2018			
7/11/2018	<0.003	<0.003	0.0013 (J)
11/6/2018	<0.003		
11/7/2018		<0.003	<0.003
8/27/2019	<0.003		
8/28/2019			
8/29/2019		<0.003	<0.003
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.003	<0.003	<0.003
10/18/2019			
3/2/2020			
3/3/2020	<0.003		<0.003
3/4/2020		<0.003	
8/11/2020	<0.003		
8/12/2020			
8/13/2020		<0.003	
8/14/2020			<0.003
9/22/2020		<0.003	
9/23/2020	<0.003		
9/24/2020			<0.003
3/1/2021			
3/2/2021	<0.003	<0.003	
3/3/2021			<0.003
3/4/2021			
9/8/2021			
9/9/2021	<0.003		<0.003
9/10/2021		<0.003	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.003		<0.003
1/21/2022		<0.003	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.003	<0.003
9/20/2022	<0.003		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.003		
2/7/2023		<0.003	<0.003
9/6/2023			
9/8/2023			
9/11/2023		0.0018 (J)	<0.003
9/13/2023	<0.003		
1/30/2024			
1/31/2024			<0.003
2/1/2024	<0.003	<0.003	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			<0.003
9/5/2024		<0.003	
9/9/2024	<0.003		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.003	<0.003
8/31/2016							<0.003		
9/1/2016					<0.003	<0.003			
9/2/2016	<0.003								
9/7/2016				<0.003					
12/6/2016							<0.003	<0.003	<0.003
12/8/2016	<0.003			<0.003	<0.003	<0.003			
3/28/2017			<0.003				<0.003		<0.003
3/29/2017	<0.003							<0.003	
3/30/2017		<0.003				<0.003			
3/31/2017				<0.003	<0.003				
5/12/2017		<0.003	<0.003						
6/15/2017		0.0007 (J)	0.0008 (J)						
7/11/2017			<0.003				<0.003	<0.003	<0.003
7/12/2017		<0.003							
7/13/2017	<0.003			<0.003	<0.003	<0.003			
10/24/2017			<0.003					<0.003	<0.003
10/25/2017	<0.003			<0.003			<0.003		
10/26/2017		<0.003			<0.003	<0.003			
2/27/2018			<0.003				<0.003	<0.003	<0.003
2/28/2018	<0.003			<0.003					
3/1/2018		<0.003			<0.003				
3/2/2018						<0.003			
7/11/2018				<0.003					<0.003
7/12/2018	<0.003	<0.003			<0.003	<0.003			
11/6/2018			<0.003				<0.003	<0.003	<0.003
11/7/2018	<0.003			<0.003	<0.003	<0.003			
11/8/2018		<0.003							
8/27/2019			<0.003				<0.003		<0.003
8/28/2019				<0.003				<0.003	
8/29/2019	<0.003	<0.003			<0.003	<0.003			
10/15/2019			<0.003						
10/16/2019							<0.003	<0.003	
10/17/2019				<0.003	<0.003				<0.003
10/18/2019	<0.003	<0.003				<0.003			
3/2/2020			0.00058 (J)				0.00032 (J)		
3/3/2020	<0.003							<0.003	<0.003
3/4/2020		<0.003		<0.003	<0.003	<0.003			
8/11/2020									<0.003
8/12/2020			<0.003		<0.003		<0.003	<0.003	
8/13/2020		<0.003		<0.003		<0.003			
8/14/2020	<0.003								
9/22/2020			<0.003	<0.003			<0.003		<0.003
9/23/2020					0.0012 (J)	0.00039 (J)		<0.003	
9/24/2020	<0.003	<0.003							
3/1/2021			0.00049 (J)						
3/2/2021							0.0015 (J)	0.00046 (J)	<0.003
3/3/2021	<0.003	<0.003		<0.003	<0.003	<0.003			
9/9/2021		<0.003							
9/10/2021	<0.003		<0.003		<0.003	0.0018 (J)	<0.003		<0.003
9/13/2021				<0.003				<0.003	
1/20/2022	<0.003	<0.003		<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.003				
1/24/2022			<0.003			<0.003	<0.003		
1/25/2022								<0.003	
1/26/2022									<0.003
9/13/2022				<0.003	<0.003	<0.003			
9/14/2022							<0.003		
9/15/2022								<0.003	
9/16/2022	<0.003								
9/19/2022			<0.003						<0.003
9/20/2022		<0.003							
2/1/2023				<0.003					
2/3/2023			<0.003		<0.003	<0.003			<0.003
2/6/2023	<0.003	<0.003							
2/7/2023							<0.003	<0.003	
9/11/2023	<0.003	<0.003							
9/12/2023					<0.003			<0.003	
9/13/2023			<0.003	<0.003		<0.003	<0.003		
9/14/2023									
1/30/2024				<0.003					
1/31/2024	<0.003	<0.003							
2/1/2024			0.0028 (J)				0.00068 (J)	<0.003	
2/5/2024					<0.003	<0.003			
9/5/2024		<0.003		<0.003	0.0014 (J)				
9/6/2024			<0.003				<0.003		
9/9/2024	<0.003							0.0021 (J)	
9/10/2024						<0.003			
9/11/2024									<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.003
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.003
9/5/2024	
9/6/2024	
9/9/2024	0.0012 (J)
9/10/2024	
9/11/2024	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
7/23/2020	<0.005								
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
9/25/2020	<0.005								
9/28/2020									
12/9/2020				<0.005		<0.005	<0.005	<0.005	
12/17/2020			<0.005		<0.005				
1/11/2021			<0.005						
1/12/2021		<0.005		<0.005				<0.005	
3/3/2021									
3/4/2021			<0.005	0.0025 (J)	<0.005	<0.005	<0.005		
3/5/2021		0.0017 (J)						0.0023 (J)	
3/8/2021	<0.005								
3/12/2021									
4/15/2021									<0.005
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				0.0019 (J)			<0.005	0.0029 (J)	<0.005
1/20/2022									0.0016 (J)
1/21/2022	<0.005								
1/24/2022				0.0035 (J)		<0.005	<0.005	0.0022 (J)	
1/25/2022					<0.005				
1/26/2022		<0.005							
1/27/2022			<0.005						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005		<0.005	
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									<0.005
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					<0.005
2/6/2023						<0.005			
2/7/2023					<0.005		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			<0.005
9/13/2023				<0.005			<0.005	<0.005	
1/31/2024	<0.005								
2/1/2024						<0.005	0.008		
2/2/2024		<0.005	<0.005		<0.005				
2/5/2024				0.00093 (J)				<0.005	<0.005
9/5/2024	<0.005								
9/9/2024					0.0024 (J)	0.0022 (J)	0.0026 (J)	0.0028 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/10/2024		<0.005	<0.005	<0.005					
9/11/2024									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
7/23/2020			
8/13/2020			<0.005
8/17/2020		0.0032 (J)	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.0047 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.003 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.0031 (J)	
9/14/2021			
1/20/2022			0.0033 (J)
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0045 (J)	
6/6/2022	<0.005		
9/8/2022			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.005	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		0.005 (J)	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		0.0043 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.005		<0.005
2/2/2024			
2/5/2024		0.0042 (J)	
9/5/2024			
9/9/2024			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/10/2024	<0.005		
9/11/2024		0.0019 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		<0.005							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018		<0.005							
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		<0.005	<0.005				
10/22/2019	<0.005								
10/24/2019			0.0029 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.002 (J)						
8/14/2020					<0.005				
8/17/2020				<0.005		<0.005			
8/19/2020								0.0013 (J)	
9/22/2020									
9/24/2020			0.0025 (J)						
9/25/2020					<0.005	<0.005			
9/28/2020				<0.005				0.0027 (J)	
3/1/2021									
3/4/2021			0.002 (J)		<0.005				
3/5/2021						<0.005			
3/9/2021								<0.005	
3/12/2021		<0.005		<0.005					
9/9/2021									
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0012 (J)	<0.005	<0.005
9/16/2021					<0.005				
1/18/2022									
1/20/2022	0.0022 (J)		0.003 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/21/2022					0.0014 (J)				
1/25/2022		<0.005		0.003 (J)					
1/26/2022							0.0015 (J)	0.002 (J)	0.0014 (J)
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.005	<0.005	
9/13/2022			<0.005		<0.005				<0.005
9/14/2022	<0.005								
9/16/2022		<0.005 (D)		<0.005 (D)		<0.005			
1/31/2023							0.0023 (J)	0.0028 (J)	
2/1/2023									<0.005
2/2/2023	<0.005								
2/3/2023					<0.005				
2/6/2023			<0.005						
2/7/2023		<0.005		0.004 (J)		<0.005			
9/6/2023							<0.005	<0.005	<0.005
9/7/2023	<0.005								
9/11/2023		<0.005		<0.005					
9/12/2023			<0.005		<0.005	<0.005			
1/30/2024							0.0021 (J)	<0.005	
1/31/2024									<0.005
2/1/2024	<0.005	<0.005		<0.005	<0.005				
2/5/2024			0.0014 (J)			<0.005			
9/4/2024							0.0019 (J)	0.0013 (J)	0.0023 (J)
9/5/2024									
9/6/2024	<0.005				<0.005				
9/9/2024		0.0028 (J)		0.0059					
9/10/2024						<0.005			
9/11/2024			<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
11/22/2016			
3/28/2017		0.0005 (J)	<0.005
5/11/2017		0.0005 (J)	
5/15/2017			<0.005
6/15/2017		<0.005	<0.005
7/11/2017			<0.005
7/12/2017		<0.005	
8/8/2017			<0.005
10/24/2017		<0.005	<0.005
2/19/2018			
2/27/2018			<0.005
3/8/2018		<0.005	
7/10/2018			<0.005
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005 (J)	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.00052 (J)
10/16/2019		0.0018 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.005
3/9/2020		0.00068 (J)	
8/11/2020			<0.005
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.00093 (J)	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005		
9/16/2021			
1/18/2022			0.0046 (J)
1/20/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/21/2022			
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		0.0024 (J)	
9/7/2022			0.0024 (J)
9/8/2022		0.0029 (J)	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		0.0029 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	<0.005	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.005
9/5/2024	<0.005		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		0.00091 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0058	<0.005			<0.005			
9/1/2016				<0.005					0.0022 (J)
9/2/2016									
9/6/2016					<0.005		<0.005		
9/7/2016								<0.005	
12/6/2016		0.0017 (J)	<0.005			<0.005			
12/7/2016				<0.005	<0.005		<0.005		<0.005
12/8/2016								<0.005	
3/28/2017	<0.005								
3/29/2017		0.0055	<0.005	<0.005		<0.005			0.002 (J)
3/30/2017					<0.005		0.0006 (J)	0.0008 (J)	
5/11/2017									
5/12/2017	0.0004 (J)								
6/15/2017									
6/16/2017	<0.005								
7/11/2017	<0.005								
7/12/2017		0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	<0.005	0.0058	<0.005						
10/25/2017				0.0006 (J)		<0.005	<0.005	0.0007 (J)	0.0022 (J)
11/15/2017					<0.005				
2/27/2018	<0.005	0.0105	<0.005	<0.005		<0.005			
2/28/2018					<0.005		<0.005	0.00073 (J)	0.0028 (J)
7/10/2018	<0.005								
7/11/2018				<0.005		<0.005	<0.005	<0.005	0.0009 (J)
11/6/2018	<0.005	<0.005 (J)	<0.005						
11/7/2018				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	<0.005	0.0024 (J)	<0.005	<0.005		<0.005		<0.005	
8/28/2019					<0.005		<0.005		0.00049 (J)
8/29/2019									
9/17/2019				<0.005					
10/15/2019	0.00071 (J)	0.0078	<0.005	0.00063 (J)					
10/16/2019					<0.005	0.00039 (J)			0.00046 (J)
10/17/2019							0.00064 (J)		
10/18/2019								0.0012 (J)	
3/2/2020	<0.005		<0.005	<0.005					
3/3/2020		0.0025 (J)			<0.005	<0.005	<0.005		<0.005
3/4/2020								0.0014 (J)	
8/11/2020	<0.005	0.0028 (J)	<0.005	<0.005		<0.005			0.0014 (J)
8/12/2020					<0.005				
8/13/2020							0.0013 (J)		
8/14/2020								<0.005	
9/22/2020	<0.005		<0.005	<0.005		<0.005			0.0017 (J)
9/23/2020					<0.005		<0.005		
9/24/2020		0.0078						0.0011 (J)	
3/1/2021	<0.005								
3/2/2021			<0.005		<0.005	<0.005	<0.005		0.0013 (J)
3/3/2021				<0.005				<0.005	
3/4/2021		0.006							
9/8/2021	<0.005								
9/9/2021			<0.005	<0.005	<0.005	<0.005	<0.005		0.0027 (J)
9/10/2021		0.0076							
9/13/2021								<0.005	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	0.0054								
1/20/2022									
1/21/2022									
1/24/2022							<0.005	0.0014 (J)	
1/25/2022			<0.005	<0.005	<0.005	<0.005			0.0014 (J)
1/26/2022		0.0043 (J)							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								<0.005	<0.005
9/15/2022		0.0024 (J)	<0.005	<0.005	<0.005				
9/20/2022									
1/31/2023	<0.005								
2/1/2023					<0.005	<0.005			
2/2/2023		0.0036 (J)					<0.005		
2/6/2023			<0.005	<0.005				<0.005	<0.005
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		<0.005	<0.005	<0.005		<0.005
9/11/2023		0.0065		<0.005					
9/13/2023								<0.005	
1/30/2024	<0.005								
1/31/2024					<0.005				
2/1/2024			<0.005						0.00088 (J)
2/2/2024		0.0063		<0.005					
2/5/2024						<0.005	<0.005		
2/6/2024								<0.005	
9/4/2024	<0.005								
9/5/2024				<0.005	<0.005		<0.005		0.0011 (J)
9/9/2024			0.0022 (J)						
9/10/2024						<0.005		0.0048 (J)	
9/11/2024		0.043							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0159	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0037 (J)	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.015	
3/30/2017	<0.005		<0.005
5/11/2017	<0.005		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		0.0121	<0.005
10/24/2017	<0.005		
10/25/2017		0.0135	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		0.0177	<0.005
7/10/2018			
7/11/2018	<0.005	0.0055	<0.005
11/6/2018	<0.005		
11/7/2018		0.0054	<0.005
8/27/2019	0.00099 (J)		
8/28/2019			
8/29/2019		0.0064	<0.005
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.005	0.0094	<0.005
10/18/2019			
3/2/2020			
3/3/2020	0.0025 (J)		<0.005
3/4/2020		0.029	
8/11/2020	<0.005		
8/12/2020			
8/13/2020		0.014	
8/14/2020			<0.005
9/22/2020		0.0063	
9/23/2020	<0.005		
9/24/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.019	
3/3/2021			<0.005
3/4/2021			
9/8/2021			
9/9/2021	<0.005		<0.005
9/10/2021		0.0083	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.0023 (J)		<0.005
1/21/2022		0.015	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.016	<0.005
9/20/2022	<0.005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.005		
2/7/2023		0.023	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.029	<0.005
9/13/2023	<0.005		
1/30/2024			
1/31/2024			<0.005
2/1/2024	<0.005	0.025	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			<0.005
9/5/2024		0.055	
9/9/2024	0.0027 (J)		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.005	0.0241
8/31/2016							0.0035 (J)		
9/1/2016					0.0037 (J)	<0.005			
9/2/2016	<0.005								
9/7/2016				<0.005					
12/6/2016							0.0032 (J)	<0.005	<0.005
12/8/2016	<0.005			<0.005	0.0032 (J)	<0.005			
3/28/2017			0.0005 (J)				0.0385		0.0243
3/29/2017	<0.005							0.001 (J)	
3/30/2017		<0.005				0.0015 (J)			
3/31/2017				0.0007 (J)	0.0031 (J)				
5/12/2017		<0.005	0.0005 (J)						
6/15/2017		<0.005	<0.005						
7/11/2017			0.0008 (J)				0.0203	0.0012 (J)	0.0194
7/12/2017		<0.005							
7/13/2017	<0.005			<0.005	0.0018 (J)	0.0012 (J)			
10/24/2017			<0.005					0.0015 (J)	0.0249
10/25/2017	<0.005			<0.005			0.0119		
10/26/2017		<0.005			0.0016 (J)	0.0008 (J)			
2/27/2018			<0.005				0.0094	0.002 (J)	0.0405
2/28/2018	0.001 (J)			0.0011 (J)					
3/1/2018		<0.005			0.0029 (J)				
3/2/2018						0.0017 (J)			
7/11/2018				<0.005					0.016
7/12/2018	<0.005	<0.005			0.0023 (J)	0.0015 (J)			
11/6/2018			<0.005				<0.005	<0.005	0.017
11/7/2018	<0.005			<0.005	<0.005 (J)	<0.005			
11/8/2018		<0.005							
8/27/2019			<0.005				<0.005		0.021
8/28/2019				<0.005				<0.005	
8/29/2019	<0.005	<0.005			0.00089 (J)	<0.005			
10/15/2019			<0.005						
10/16/2019							0.0036 (J)	<0.005	
10/17/2019				<0.005	0.0013 (J)				0.033
10/18/2019	<0.005	<0.005				0.00079 (J)			
3/2/2020			<0.005				0.0052		
3/3/2020	<0.005							0.00096 (J)	0.015
3/4/2020		<0.005		<0.005	0.0012 (J)	0.0006 (J)			
8/11/2020									0.022
8/12/2020			<0.005		0.00081 (J)		0.002 (J)	<0.005	
8/13/2020		<0.005		<0.005		<0.005			
8/14/2020	<0.005								
9/22/2020			<0.005	<0.005			0.0062		0.04
9/23/2020					<0.005	<0.005		<0.005	
9/24/2020	<0.005	<0.005							
3/1/2021			<0.005						
3/2/2021							0.0013 (J)	<0.005	0.021
3/3/2021	<0.005	<0.005		<0.005	<0.005	<0.005			
9/9/2021		<0.005							
9/10/2021	<0.005		<0.005		0.0016 (J)	<0.005	0.0031 (J)		0.031
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.0036 (J)				
1/24/2022			0.0011 (J)			<0.005	0.0019 (J)		
1/25/2022								<0.005	
1/26/2022									0.012
9/13/2022				<0.005	<0.005	<0.005			
9/14/2022							0.0038 (J)		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						0.016
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		<0.005	<0.005			0.014
2/6/2023	<0.005	<0.005							
2/7/2023							0.0036 (J)	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					<0.005			<0.005	
9/13/2023			<0.005	<0.005		<0.005	<0.005		
9/14/2023									
1/30/2024				<0.005					
1/31/2024	<0.005	<0.005							
2/1/2024			<0.005				<0.005	<0.005	
2/5/2024					0.001 (J)	<0.005			
9/5/2024		<0.005		<0.005	<0.005				
9/6/2024			<0.005				0.001 (J)		
9/9/2024	0.0016 (J)							0.0019 (J)	
9/10/2024						0.0025 (J)			
9/11/2024									0.013

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.005
9/5/2024	
9/6/2024	
9/9/2024	0.0012 (J)
9/10/2024	
9/11/2024	

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.015								
9/24/2020									
9/25/2020	0.022								
9/28/2020									
12/9/2020				0.026		0.13	0.066	0.027	
12/17/2020			0.022		0.022				
1/11/2021			0.024						
1/12/2021		0.076		0.022				0.027	
3/3/2021									
3/4/2021			0.022	0.021	0.021	0.12	0.06		
3/5/2021		0.064						0.038	
3/8/2021	0.022								
3/12/2021									
4/15/2021									0.044
9/9/2021									
9/10/2021			0.02						
9/13/2021	0.021	0.076			0.02	0.087			
9/14/2021				0.021			0.06	0.043	0.031
1/20/2022									0.025
1/21/2022	0.023								
1/24/2022				0.024		0.092	0.056	0.038	
1/25/2022					0.02				
1/26/2022		0.062							
1/27/2022			0.022						
6/6/2022									
9/8/2022	0.021								
9/13/2022				0.021					
9/14/2022						0.057		0.028	
9/15/2022			0.019				0.054		
9/16/2022		0.063			0.021				
9/19/2022									0.023
2/2/2023	0.098		0.02						
2/3/2023		0.048		0.017					0.021
2/6/2023						0.049			
2/7/2023					0.022		0.051	0.028	
9/6/2023	0.021								
9/7/2023									
9/8/2023		0.075							
9/11/2023			0.019		0.023				
9/12/2023						0.046			0.021
9/13/2023				0.02			0.051	0.031	
1/31/2024	0.019								
2/1/2024						0.04	0.048		
2/2/2024		0.071	0.019		0.023				
2/5/2024				0.018				0.025	0.033
9/5/2024	0.021								
9/9/2024					0.023	0.043	0.043	0.029	0.017
9/10/2024		0.058	0.021	0.022					

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			0.018
9/11/2019			0.023
10/21/2019			0.026
8/13/2020			0.026
8/17/2020		0.03	
9/24/2020			0.025
9/25/2020			
9/28/2020		0.026	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.028	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.027
4/15/2021			
9/9/2021			0.021
9/10/2021			
9/13/2021		0.026	
9/14/2021			
1/20/2022			0.021
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.03	
6/6/2022	0.039		
9/8/2022			0.018
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.028	
9/19/2022			
2/2/2023			0.019
2/3/2023			
2/6/2023	0.04		
2/7/2023		0.027	
9/6/2023			
9/7/2023	0.044		0.015
9/8/2023		0.028	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.052		0.017
2/2/2024			
2/5/2024		0.026	
9/5/2024			
9/9/2024			0.017
9/10/2024	0.041		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		0.024	

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.028								
1/30/2019		0.016							
8/27/2019									
8/28/2019									
9/11/2019	0.021								
9/12/2019		0.017							
9/18/2019			0.086						
9/23/2019				0.031					
10/15/2019									
10/16/2019									
10/21/2019		0.018		0.03	0.034				
10/22/2019	0.021								
10/24/2019			0.1						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.11						
8/14/2020					0.056				
8/17/2020				0.024		0.022			
8/19/2020								0.018	
9/22/2020									
9/24/2020			0.12						
9/25/2020					0.027	0.021			
9/28/2020				0.023				0.017	
3/1/2021									
3/4/2021			0.11		0.032				
3/5/2021						0.022			
3/9/2021								0.016 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.016			
9/14/2021	0.026	0.018	0.12	0.022					
9/15/2021							0.015	0.016	0.02
9/16/2021					0.03				
1/18/2022									
1/20/2022	0.02		0.13						
1/21/2022					0.024				
1/25/2022		0.021		0.026					

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							0.016	0.021	0.02
1/27/2022						0.018			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.017	0.015	
9/13/2022			0.089		0.025				0.02
9/14/2022	0.032								
9/16/2022		0.02		0.02		0.016			
1/31/2023							0.015	0.015	
2/1/2023									0.021
2/2/2023	0.056								
2/3/2023					0.024				
2/6/2023			0.11						
2/7/2023		0.023		0.023		0.017			
9/6/2023							0.013	0.017	0.02
9/7/2023	0.025								
9/11/2023		0.028		0.024					
9/12/2023			0.12		0.028	0.017			
1/30/2024							0.018	0.014	
1/31/2024									0.022
2/1/2024	0.062	0.025		0.024	0.027				
2/5/2024			0.11			0.015			
9/4/2024							0.015	0.013	0.021
9/5/2024									
9/6/2024	0.049				0.026				
9/9/2024		0.027		0.019					
9/10/2024						0.015			
9/11/2024			0.099						

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.134	0.0166
5/11/2017		0.126	
5/15/2017			0.0181
6/15/2017		0.14	0.0277
7/11/2017			0.0306
7/12/2017		0.173	
8/8/2017			0.0277
10/24/2017		0.109	0.0333
2/27/2018			0.0341
3/8/2018		0.19	
7/10/2018			0.037
7/12/2018		0.18	
11/6/2018			0.037
11/7/2018		0.15	
1/28/2019			
1/30/2019			
8/27/2019			0.037
8/28/2019		0.087	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.034
10/16/2019		0.077	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.035
3/9/2020		0.099	
8/11/2020			0.041
8/13/2020		0.046	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.07	0.038
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.042
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.076	
9/9/2021		0.099	0.038
9/13/2021			
9/14/2021			
9/15/2021	0.082		
9/16/2021			
1/18/2022			0.043
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.035		
1/27/2022			
1/28/2022		0.068	
9/7/2022			0.039
9/8/2022		0.077	
9/12/2022			
9/13/2022	0.092		
9/14/2022			
9/16/2022			
1/31/2023	0.041		0.041
2/1/2023		0.089	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.051		0.041
9/7/2023		0.12	
9/11/2023			
9/12/2023			
1/30/2024	0.048	0.096	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			0.039
9/5/2024	0.12		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		0.084	

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0321	0.0545			0.0576			
9/1/2016				0.0254					0.0214
9/2/2016									
9/6/2016					0.0297		0.0497		
9/7/2016								0.0694	
12/6/2016		0.029	0.0564			0.0608			
12/7/2016				0.0241	0.0266		0.0469		0.0191
12/8/2016								0.062	
3/28/2017	0.0378								
3/29/2017		0.0335	0.0565	0.0268		0.0693			0.0209
3/30/2017					0.0308		0.0495	0.0615	
5/11/2017									
5/12/2017	0.04								
6/15/2017									
6/16/2017	0.0369								
7/11/2017	0.0362								
7/12/2017		0.0314	0.0572	0.0262	0.0291	0.0585	0.0517	0.0532	0.0212
10/24/2017	0.0313	0.0317	0.0596						
10/25/2017				0.0268		0.0563	0.0474	0.0544	0.021
11/15/2017					0.0309				
2/27/2018	0.0287	0.028	0.0672	0.0255		0.0591			
2/28/2018					<0.01		0.0455	0.0527	0.0213
7/10/2018	0.027								
7/11/2018				0.026		0.061	0.05	0.053	0.023
11/6/2018	0.026	0.025	0.074						
11/7/2018				0.028	0.034	0.055	0.042	0.044	0.024
8/27/2019	0.027	0.021	0.071	0.024		0.059		0.05	
8/28/2019					0.033		0.047		0.026
8/29/2019									
9/17/2019				0.02					
10/15/2019	0.024	0.024	0.064	0.02					
10/16/2019					0.034	0.059			0.024
10/17/2019							0.046		
10/18/2019								0.045	
3/2/2020	0.026		0.071	0.04					
3/3/2020		0.024			0.035	0.064	0.05		0.028
3/4/2020								0.044	
8/11/2020	0.026	0.024	0.064	0.028		0.061			0.027
8/12/2020					0.032				
8/13/2020							0.06		
8/14/2020								0.046	
9/22/2020	0.024		0.058	0.036		0.06			0.026
9/23/2020					0.03		0.043		
9/24/2020		0.021						0.033	
3/1/2021	0.028								
3/2/2021			0.052		0.03	0.064	0.043		0.026
3/3/2021				0.035				0.036	
3/4/2021		0.025							
9/8/2021	0.025								
9/9/2021			0.054	0.04	0.027	0.059	0.041		0.025
9/10/2021		0.019							
9/13/2021								0.031	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	0.029								
1/20/2022									
1/21/2022									
1/24/2022							0.041	0.031	
1/25/2022			0.047	0.054	0.028	0.064			0.026
1/26/2022		0.022							
9/7/2022	0.025								
9/13/2022						0.063	0.042		
9/14/2022								0.031	0.027
9/15/2022		0.018	0.047	0.035	0.027				
9/20/2022									
1/31/2023	0.028								
2/1/2023					0.023	0.057			
2/2/2023		0.02					0.039		
2/6/2023			0.039	0.047				0.029	0.025
2/7/2023									
9/6/2023	0.03								
9/8/2023			0.034		0.022	0.057	0.035		0.022
9/11/2023		0.019		0.058					
9/13/2023								0.031	
1/30/2024	0.029								
1/31/2024					0.024				
2/1/2024			0.038						0.024
2/2/2024		0.018 (J)		0.054					
2/5/2024						0.057	0.037		
2/6/2024								0.027	
9/4/2024	0.027								
9/5/2024				0.035	0.022		0.037		0.022
9/9/2024			0.043						
9/10/2024						0.06		0.03	
9/11/2024		0.025							

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0097 (J)	0.0252
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0087 (J)	
12/8/2016			0.0262
3/28/2017			
3/29/2017		0.0094 (J)	
3/30/2017	0.0232		0.0272
5/11/2017	0.0231		
5/12/2017			
6/15/2017	0.0223		
6/16/2017			
7/11/2017	0.0201		
7/12/2017		0.0099 (J)	0.0276
10/24/2017	0.0206		
10/25/2017		0.0096 (J)	0.0262
11/15/2017			
2/27/2018	0.0207		
2/28/2018		<0.01	0.027
7/10/2018			
7/11/2018	0.022	0.01	0.027
11/6/2018	0.021		
11/7/2018		0.011	0.024
8/27/2019	0.023		
8/28/2019			
8/29/2019		0.018	0.027
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.022	0.015	0.027
10/18/2019			
3/2/2020			
3/3/2020	0.022		0.027
3/4/2020		0.017	
8/11/2020	0.022		
8/12/2020			
8/13/2020		0.019	
8/14/2020			0.027
9/22/2020		0.011	
9/23/2020	0.023		
9/24/2020			0.024
3/1/2021			
3/2/2021	0.023	0.021	
3/3/2021			0.024
3/4/2021			
9/8/2021			
9/9/2021	0.022		0.023
9/10/2021		0.0098	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.022		0.024
1/21/2022		0.018	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.017	0.024
9/20/2022	0.02		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.02		
2/7/2023		0.019	0.024
9/6/2023			
9/8/2023			
9/11/2023		0.014	0.024
9/13/2023	0.023		
1/30/2024			
1/31/2024			0.024
2/1/2024	0.024	0.015 (J)	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.021
9/5/2024		0.014	
9/9/2024	0.023		
9/10/2024			
9/11/2024			

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0435	0.0162
8/31/2016							0.0266 (O)		
9/1/2016					0.0162	0.0157			
9/2/2016	0.0397								
9/7/2016				0.0194					
12/6/2016							0.0186	0.0431	0.0138
12/8/2016	0.0408			0.0189	0.0247	0.0155			
3/28/2017			0.0363				0.0187		0.017
3/29/2017	0.0417							0.044	
3/30/2017		0.0184				0.0131			
3/31/2017				0.0194	0.0189				
5/12/2017		0.0202	0.0337						
6/15/2017		0.0188	0.03						
7/11/2017			0.0301				0.0174 (J)	0.0389	0.0154 (J)
7/12/2017		0.0186							
7/13/2017	0.0376			0.021	0.0165	0.014			
10/24/2017			0.0351					0.0369	0.0148
10/25/2017	0.0384			0.0196			0.0175		
10/26/2017		0.0176			0.0152	0.0117			
2/27/2018			0.0364				0.0172	0.0346	0.0148
2/28/2018	0.0353			0.0171					
3/1/2018		0.0164			0.0164				
3/2/2018						0.0131			
7/11/2018				0.02					0.017
7/12/2018	0.036	0.022			0.015	0.013			
11/6/2018			0.035				0.016	0.027	0.015
11/7/2018	0.031			0.017	0.02	0.014			
11/8/2018		0.022							
8/27/2019			0.036				0.017		0.016
8/28/2019				0.018				0.025	
8/29/2019	0.031	0.025			0.018	0.014			
10/15/2019			0.033						
10/16/2019							0.02	0.027	
10/17/2019				0.018	0.019				0.015
10/18/2019	0.032	0.019				0.014			
3/2/2020			0.036				0.018		
3/3/2020	0.035							0.026	0.016
3/4/2020		0.032		0.015	0.017	0.014			
8/11/2020									0.016
8/12/2020			0.036		0.016		0.017	0.034	
8/13/2020		0.027		0.027		0.013			
8/14/2020	0.035								
9/22/2020			0.03	0.016			0.017		0.015
9/23/2020					0.014	0.013		0.025	
9/24/2020	0.031	0.02							
3/1/2021			0.039						
3/2/2021							0.017	0.029	0.017
3/3/2021	0.031	0.019		0.015	0.02	0.014			
9/9/2021		0.021							
9/10/2021	0.027		0.032		0.021	0.013	0.015		0.014
9/13/2021				0.014				0.019	
1/20/2022	0.029	0.024		0.014					

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.017				
1/24/2022			0.035			0.014	0.018		
1/25/2022								0.019	
1/26/2022									0.016
9/13/2022				0.016	0.022	0.014			
9/14/2022							0.018		
9/15/2022								0.021	
9/16/2022	0.029								
9/19/2022			0.032						0.017
9/20/2022		0.019							
2/1/2023				0.015					
2/3/2023			0.034		0.019	0.013			0.019
2/6/2023	0.027	0.023							
2/7/2023							0.019	0.025	
9/11/2023	0.029	0.022							
9/12/2023					0.023			0.021	
9/13/2023			0.034	0.015		0.015	0.016		
9/14/2023									
1/30/2024				0.015					
1/31/2024	0.03	0.023							
2/1/2024			0.032				0.016	0.02	
2/5/2024					0.018	0.013			
9/5/2024		0.021		0.014	0.02				
9/6/2024			0.025				0.014		
9/9/2024	0.028							0.022	
9/10/2024						0.015			
9/11/2024									0.016

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Barium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.058
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.05
9/5/2024	
9/6/2024	
9/9/2024	0.042
9/10/2024	
9/11/2024	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0004 (J)								
9/24/2020									
9/25/2020	0.00035 (J)								
9/28/2020									
12/9/2020				0.0013 (J)		<0.0005	<0.0005	<0.0005	
12/17/2020			0.0014 (J)		0.00012 (J)				
1/11/2021			0.0013 (J)						
1/12/2021		6.6E-05 (J)		0.0015 (J)				<0.0005	
3/3/2021									
3/4/2021			0.0012	0.0015	0.00013 (J)	5E-05 (J)	<0.0005		
3/5/2021		4.7E-05 (J)						<0.0005	
3/8/2021	0.00046 (J)								
3/12/2021									
4/15/2021									0.00085
9/9/2021									
9/10/2021			0.0011						
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005			
9/14/2021				0.0011			<0.0005	<0.0005	0.00087
1/20/2022									0.0011
1/21/2022	0.00053								
1/24/2022				0.0012		<0.0005	<0.0005	<0.0005	
1/25/2022					0.00011 (J)				
1/26/2022		7.9E-05 (J)							
1/27/2022			0.0011						
6/6/2022									
9/8/2022	0.00058								
9/13/2022				0.0014					
9/14/2022						<0.0005		<0.0005	
9/15/2022			0.001				<0.0005		
9/16/2022		6.7E-05 (J)			0.00011 (J)				
9/19/2022									0.0011
2/2/2023	<0.0005		0.00091						
2/3/2023		6.3E-05 (J)		0.0016					0.001
2/6/2023						<0.0005			
2/7/2023					8.4E-05 (J)		<0.0005	<0.0005	
9/6/2023	0.00054								
9/7/2023									
9/8/2023		<0.0005							
9/11/2023			0.00074		6.6E-05 (J)				
9/12/2023						<0.0005			0.00066
9/13/2023				0.0016			<0.0005	<0.0005	
1/31/2024	0.00047 (J)								
2/1/2024						<0.0005	0.00058		
2/2/2024		<0.0005	0.00081		0.0001 (J)				
2/5/2024				0.0014				<0.0005	0.00089
9/5/2024	0.00053								
9/9/2024					<0.0005	<0.0005	<0.0005	<0.0005	0.00079

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/10/2024		<0.0005	0.00087	0.00088					
9/11/2024									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
10/6/2016			9E-05 (J)
1/30/2019			<0.0025
9/11/2019			0.00012 (J)
10/21/2019			7.8E-05 (J)
8/13/2020			0.00011 (J)
8/17/2020		0.0013 (J)	
9/24/2020			0.00013 (J)
9/25/2020			
9/28/2020		0.0012 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0011	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0025
4/15/2021			
9/9/2021			0.00014 (J)
9/10/2021			
9/13/2021		0.0012	
9/14/2021			
1/20/2022			0.00015 (J)
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0012	
6/6/2022	0.00024 (J)		
9/8/2022			0.00013 (J)
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0013	
9/19/2022			
2/2/2023			0.00012 (J)
2/3/2023			
2/6/2023	0.00034 (J)		
2/7/2023		0.0012	
9/6/2023			
9/7/2023	0.00049 (J)		0.00011 (J)
9/8/2023		0.0013	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.00045 (J)		0.00015 (J)
2/2/2024			
2/5/2024		0.0013	
9/5/2024			
9/9/2024			0.00018 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/10/2024	0.00042 (J)		
9/11/2024		0.0012	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
10/7/2016	0.0004 (J)								
11/22/2016		<0.0005							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018	0.00049 (J)	<0.0005							
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.003								
1/30/2019		<0.0005							
8/27/2019									
8/28/2019									
9/11/2019	0.00035 (J)								
9/12/2019		<0.0005							
9/18/2019			0.00011 (J)						
9/23/2019				0.0015 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.0005		0.0011 (J)	0.00039 (J)				
10/22/2019	0.0003 (J)								
10/24/2019			<0.0005						
12/18/2019							0.022		
12/19/2019								0.0069	
2/17/2020									<0.003
2/27/2020									0.0019 (J)
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.00014 (J)						
8/14/2020					0.0007 (J)				
8/17/2020				0.0014 (J)		0.0014 (J)			
8/19/2020								0.015	
9/22/2020									
9/24/2020			5.3E-05 (J)						
9/25/2020					0.00028 (J)	0.00063 (J)			
9/28/2020				0.0015 (J)				0.015	
3/1/2021									
3/4/2021			5.7E-05 (J)		0.00037 (J)				
3/5/2021						0.005			
3/9/2021							0.017	0.017	0.0019
3/12/2021									
3/15/2021									
9/9/2021									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/13/2021						0.001			
9/14/2021	0.00042 (J)	<0.0005	<0.0005	0.0017					
9/15/2021							0.014	0.015	0.0016
9/16/2021					0.00028 (J)				
1/18/2022									
1/20/2022	0.00034 (J)		<0.0005						
1/21/2022					0.00039 (J)				
1/25/2022		<0.0005		0.0021					
1/26/2022							0.018	0.017	0.0017
1/27/2022						0.0019			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.017	0.017	
9/13/2022			0.00013 (J)		0.00044 (J)				0.0017
9/14/2022	0.00053								
9/16/2022		<0.0005		0.002		0.0013			
1/31/2023							0.017	0.016	
2/1/2023									0.0017
2/2/2023	0.00028 (J)								
2/3/2023					0.00038 (J)				
2/6/2023			<0.0005						
2/7/2023		<0.0005		0.0018		0.0016			
9/6/2023							0.013	0.014	0.0016
9/7/2023	0.0005 (J)								
9/11/2023		<0.0005		0.0017					
9/12/2023			<0.0005		0.00038 (J)	0.0014			
1/30/2024							0.016	0.013	
1/31/2024									0.0017
2/1/2024	0.00035 (J)	<0.0005		0.0016	0.00038 (J)				
2/5/2024			<0.0005			0.0015			
9/4/2024							0.015	0.012	0.0017
9/5/2024									
9/6/2024	0.00035 (J)				0.00034 (J)				
9/9/2024		0.00019 (J)		0.0017					
9/10/2024						0.0019			
9/11/2024			<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
10/7/2016			
11/22/2016			
3/28/2017		<0.0005	<0.0005
5/11/2017		<0.0005	
5/15/2017			<0.0005
6/15/2017		<0.0005	<0.0005
7/11/2017			<0.0005
7/12/2017		<0.0005	
8/8/2017			<0.0005
10/24/2017		<0.0005	<0.0005
2/19/2018			
2/27/2018			<0.0005
3/8/2018		<0.0005	
7/10/2018			9.5E-05 (J)
7/12/2018		<0.0005	
11/6/2018			0.00012 (J)
11/7/2018		<0.0005	
1/28/2019			
1/30/2019			
8/27/2019			7.9E-05 (J)
8/28/2019		<0.0005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.0005
10/16/2019		<0.0005	
10/21/2019			
10/22/2019			
10/24/2019			
12/18/2019			
12/19/2019			
2/17/2020	<0.0005		
2/27/2020	<0.0005		
3/2/2020			9.6E-05 (J)
3/9/2020		<0.0005	
8/11/2020			0.00013 (J)
8/13/2020		<0.0005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0005	6.8E-05 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.00012 (J)
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0005	
3/15/2021	<0.0005		
9/9/2021		<0.0005	8.9E-05 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/13/2021			
9/14/2021			
9/15/2021	0.00087		
9/16/2021			
1/18/2022			9.2E-05 (J)
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	6.8E-05 (J)		
1/27/2022			
1/28/2022		<0.0005	
9/7/2022			8.4E-05 (J)
9/8/2022		<0.0005	
9/12/2022			
9/13/2022	6.2E-05 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.0005		9.4E-05 (J)
2/1/2023		0.00016 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.0005		0.00012 (J)
9/7/2023		<0.0005	
9/11/2023			
9/12/2023			
1/30/2024	<0.0005	<0.0005	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.0005
9/5/2024	0.0002 (J)		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0046	<0.003			<0.0005			
9/1/2016				0.0002 (J)					0.0019 (J)
9/2/2016									
9/6/2016					<0.0005		<0.0005		
9/7/2016								0.0006 (J)	
12/6/2016		0.0048	<0.003			<0.0005			
12/7/2016				0.0002 (J)	<0.0005		<0.0005		0.0021 (J)
12/8/2016								0.0005 (J)	
3/28/2017	9E-05 (J)								
3/29/2017		0.0048	<0.003	0.0002 (J)		<0.0005			0.0017 (J)
3/30/2017					7E-05 (J)		<0.0005	0.0006 (J)	
5/11/2017									
5/12/2017	<0.003								
6/15/2017									
6/16/2017	0.0001 (J)								
7/11/2017	<0.003								
7/12/2017		0.0046	<0.003	0.0002 (J)	<0.0005	<0.0005	<0.0005	0.0005 (J)	0.0018 (J)
10/24/2017	<0.003	0.0048	<0.003						
10/25/2017				0.0002 (J)		<0.0005	<0.0005	0.0005 (J)	0.0019 (J)
11/15/2017					<0.0005				
2/27/2018	<0.003	0.0106	<0.003	<0.0005		<0.0005			
2/28/2018					<0.0005		<0.0005	<0.003	<0.003
7/10/2018	0.0009 (J)								
7/11/2018				0.0002 (J)		<0.0005	<0.0005	0.00058 (J)	0.002 (J)
11/6/2018	0.00013 (J)	0.012	<0.003 (J)						
11/7/2018				<0.003 (J)	<0.003 (J)	<0.0005	<0.003 (J)	<0.003	<0.003 (J)
8/27/2019	<0.003	0.0092	0.00014 (J)	0.00028 (J)		<0.0005		0.00066 (J)	
8/28/2019					<0.0005		<0.0005		0.0018 (J)
8/29/2019									
9/17/2019				0.00049 (J)					
10/15/2019	8.8E-05 (J)	0.01	0.00012 (J)	0.00016 (J)					
10/16/2019					<0.0005	<0.0005			0.0017 (J)
10/17/2019							<0.0005		
10/18/2019								0.00071 (J)	
3/2/2020	0.0001 (J)		0.00016 (J)	7.4E-05 (J)					
3/3/2020		0.0085			<0.0005	<0.0005	<0.0005		0.0021 (J)
3/4/2020								0.00062 (J)	
8/11/2020	0.00011 (J)	0.0066	0.00011 (J)	0.00024 (J)		<0.0005			0.002 (J)
8/12/2020					7.8E-05 (J)				
8/13/2020							0.00022 (J)		
8/14/2020								0.00064 (J)	
9/22/2020	6.9E-05 (J)		0.00015 (J)	0.00017 (J)		<0.0005			0.002 (J)
9/23/2020					6.8E-05 (J)		5.8E-05 (J)		
9/24/2020		0.0077						0.0006 (J)	
3/1/2021	0.00011 (J)								
3/2/2021			0.00014 (J)		7.3E-05 (J)	<0.0005	<0.0005		0.0019
3/3/2021				0.00011 (J)				0.00056	
3/4/2021		0.0086							
9/8/2021	9.1E-05 (J)								
9/9/2021			0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	<0.0005		0.0022
9/10/2021		0.0074							
9/13/2021								0.00052	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	0.00012 (J)								
1/20/2022									
1/21/2022									
1/24/2022							<0.0005	0.00059	
1/25/2022			0.00019 (J)	<0.0005	9.1E-05 (J)	<0.0005			0.0019
1/26/2022		0.0091							
9/7/2022	7.5E-05 (J)								
9/13/2022						<0.0005	<0.0005		
9/14/2022								0.00058	0.0018
9/15/2022		0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)				
9/20/2022									
1/31/2023	0.00011 (J)								
2/1/2023					6.7E-05 (J)	<0.0005			
2/2/2023		0.0066					<0.0005		
2/6/2023			0.00019 (J)	8.2E-05 (J)				0.00051	0.0017
2/7/2023									
9/6/2023	0.00011 (J)								
9/8/2023			0.0002 (J)		8.7E-05 (J)	<0.0005	<0.0005		0.0015
9/11/2023		0.0065		7.7E-05 (J)					
9/13/2023								0.00057	
1/30/2024	9.8E-05 (J)								
1/31/2024					<0.0005				
2/1/2024			0.00019 (J)						0.0015
2/2/2024		0.0069		<0.0005					
2/5/2024						<0.0005	<0.0005		
2/6/2024								0.00058	
9/4/2024	0.0001 (J)								
9/5/2024				0.00013 (J)	<0.0005		<0.0005		0.0016
9/9/2024			0.00014 (J)						
9/10/2024						<0.0005		0.00059	
9/11/2024		0.0081							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0026 (J)	0.0001 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0035	
12/8/2016			0.0001 (J)
3/28/2017			
3/29/2017		0.0026 (J)	
3/30/2017	<0.0005		0.0002 (J)
5/11/2017	<0.0005		
5/12/2017			
6/15/2017	<0.0005		
6/16/2017			
7/11/2017	<0.0005		
7/12/2017		0.0025 (J)	0.0001 (J)
10/24/2017	<0.0005		
10/25/2017		0.0027 (J)	0.0002 (J)
11/15/2017			
2/27/2018	<0.0005		
2/28/2018		<0.003	<0.003
7/10/2018			
7/11/2018	<0.0005	0.0026 (J)	0.00016 (J)
11/6/2018	<0.0005		
11/7/2018		<0.003 (J)	<0.003 (J)
8/27/2019	<0.0005		
8/28/2019			
8/29/2019		0.005	0.00018 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.0005	0.0041	0.00015 (J)
10/18/2019			
3/2/2020			
3/3/2020	<0.0005		0.00019 (J)
3/4/2020		0.0089	
8/11/2020	<0.0005		
8/12/2020			
8/13/2020		0.0063	
8/14/2020			0.0002 (J)
9/22/2020		0.0027 (J)	
9/23/2020	<0.0005		
9/24/2020			0.00018 (J)
3/1/2021			
3/2/2021	<0.0005	0.0057	
3/3/2021			0.00017 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.0005		0.00018 (J)
9/10/2021		0.0024	
9/13/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.0005		0.00019 (J)
1/21/2022		0.007	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0056	0.00018 (J)
9/20/2022	<0.0005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0005		
2/7/2023		0.0073	0.00016 (J)
9/6/2023			
9/8/2023			
9/11/2023		0.0067	0.00016 (J)
9/13/2023	<0.0005		
1/30/2024			
1/31/2024			0.00017 (J)
2/1/2024	<0.0005	0.0078	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.00016 (J)
9/5/2024		0.01	
9/9/2024	<0.0005		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0018 (J)	0.0045
8/31/2016							0.0054		
9/1/2016					0.0165	0.008			
9/2/2016	0.0002 (J)								
9/7/2016				0.0021 (J)					
12/6/2016							0.0064	0.0034	0.005
12/8/2016	0.0001 (J)			0.0023 (J)	0.0116	0.0086			
3/28/2017			0.0002 (J)				0.0049		0.0052
3/29/2017	0.0002 (J)							0.0031	
3/30/2017		0.0004 (J)				0.0106			
3/31/2017				0.0025 (J)	0.0112				
5/12/2017		0.0004 (J)	0.0002 (J)						
6/15/2017		0.0004 (J)	0.0001 (J)						
7/11/2017			0.0001 (J)				0.005	0.0022 (J)	0.0048
7/12/2017		0.0004 (J)							
7/13/2017	0.0002 (J)			0.0025 (J)	0.0098	0.0106			
10/24/2017			0.0002 (J)					0.0042	0.0051
10/25/2017	0.0002 (J)			0.0026 (J)			0.0069		
10/26/2017		0.0004 (J)			0.0119	0.0078			
2/27/2018			<0.003				0.0086	0.0047	0.0057
2/28/2018	<0.0005			<0.003					
3/1/2018		<0.003			0.0146				
3/2/2018						0.0096			
7/11/2018				0.0029 (J)					0.0058
7/12/2018	0.00018 (J)	0.00035 (J)			0.013	0.0086			
11/6/2018			<0.003 (J)				0.01	<0.003 (J)	0.006
11/7/2018	<0.003 (J)			0.0031	0.014	0.0078			
11/8/2018		<0.003 (J)							
8/27/2019			0.00024 (J)				0.01		0.007
8/28/2019				0.0023 (J)				0.0021 (J)	
8/29/2019	0.00015 (J)	0.00041 (J)			0.011	0.0081			
10/15/2019			0.00022 (J)						
10/16/2019							0.0072	0.0019 (J)	
10/17/2019				0.0027 (J)	0.0093				0.0063
10/18/2019	0.00014 (J)	0.00038 (J)				0.0099			
3/2/2020			0.00025 (J)				0.0098		
3/3/2020	0.00017 (J)							0.0018 (J)	0.0048
3/4/2020		0.00077 (J)		0.0029 (J)	0.01	0.008			
8/11/2020									0.0062
8/12/2020			0.00024 (J)		0.0068		0.0081	0.0018 (J)	
8/13/2020		0.00041 (J)		0.0026 (J)		0.0071			
8/14/2020	0.00016 (J)								
9/22/2020			0.00019 (J)	0.0013 (J)			0.0081		0.0049
9/23/2020					0.0069	0.0072		0.0015 (J)	
9/24/2020	0.00017 (J)	0.00045 (J)							
3/1/2021			0.00027 (J)						
3/2/2021							0.0063	0.0012	0.005
3/3/2021	0.00013 (J)	0.0005		0.0023	0.0081	0.0068			
9/9/2021		0.0005 (J)							
9/10/2021	0.00014 (J)		0.00028 (J)		0.009	0.007	0.0075		0.0049
9/13/2021				0.0024				0.0015	
1/20/2022	0.00014 (J)	0.00046 (J)		0.002					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.01				
1/24/2022			0.00033 (J)			0.0069	0.0084		
1/25/2022								0.0012	
1/26/2022									0.0054
9/13/2022				0.0028	0.0094	0.0071			
9/14/2022							0.01		
9/15/2022								0.00088	
9/16/2022	0.00023 (J)								
9/19/2022			0.00034 (J)						0.0047
9/20/2022		0.00037 (J)							
2/1/2023				0.0022					
2/3/2023			0.00033 (J)		0.0087	0.0062			0.0046
2/6/2023	0.0001 (J)	0.00038 (J)							
2/7/2023							0.0083	0.0007	
9/11/2023	0.00012 (J)	0.00035 (J)							
9/12/2023					0.0081			0.0014	
9/13/2023			0.0004 (J)	0.0024		0.0065	0.0084		
9/14/2023									
1/30/2024				0.0024					
1/31/2024	0.00013 (J)	0.00048 (J)							
2/1/2024			0.00039 (J)				0.0075	0.001	
2/5/2024					0.0074	0.0055			
9/5/2024		0.00032 (J)		0.0027	0.0075				
9/6/2024			0.00034 (J)				0.0071		
9/9/2024	<0.0005							0.00074	
9/10/2024						0.0053			
9/11/2024									0.0049

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.00013 (J)
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.0005
9/5/2024	
9/6/2024	
9/9/2024	<0.0005
9/10/2024	
9/11/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
9/24/2020									
9/25/2020	0.27								
9/28/2020									
12/9/2020				0.26 (J)		11.7	6.7	0.34 (J)	
12/17/2020			2.4		1.4				
1/11/2021			2.7						
1/12/2021		1.7		0.28				0.26	
3/3/2021									
3/4/2021			2.5	0.26	1.4	12	6.4		
3/5/2021		1.9						0.44	
3/8/2021	0.24								
3/12/2021									
4/15/2021									1.9
9/9/2021									
9/10/2021			2.5						
9/13/2021	0.24	1.6			1.3	10.7			
9/14/2021				0.23			6.8	0.32	1.7
1/20/2022									1.9
1/21/2022	0.24								
1/24/2022				0.24		12.3	6.8	0.49	
1/25/2022					1.2				
1/26/2022		1.4							
1/27/2022			2.7						
6/6/2022									
9/8/2022	0.24								
9/13/2022				0.26					
9/14/2022						11.2		0.24	
9/15/2022			2.3				7.1		
9/16/2022		1.4			1				
9/19/2022									1.7
2/2/2023	1.6		2.2						
2/3/2023		1.1		0.26					1.5
2/6/2023						10			
2/7/2023					0.95		6.4	0.16	
9/6/2023	0.24								
9/7/2023									
9/8/2023		1.3							
9/11/2023			1.8		0.81				
9/12/2023						11.3			1
9/13/2023				0.26			6.4	0.23	
1/31/2024	0.13								
2/1/2024						12	6		
2/2/2024		1.3	1.9		0.86				
2/5/2024				0.22				0.25	1.5
9/5/2024	0.19								
9/9/2024					0.72	8.9	5.9	0.14	1.4
9/10/2024		1.1	2.2	0.23					
9/11/2024									

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
10/6/2016			0.053 (J)
1/30/2019			0.14
9/11/2019			0.068
10/21/2019			0.058
9/24/2020			0.074 (J)
9/25/2020			
9/28/2020		1.4	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		1.4	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.092 (J)
4/15/2021			
9/9/2021			0.068
9/10/2021			
9/13/2021		1.5	
9/14/2021			
1/20/2022			0.077
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		1.6	
6/6/2022	0.2		
9/8/2022			0.064
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		1.6	
9/19/2022			
2/2/2023			0.064
2/3/2023			
2/6/2023	0.26		
2/7/2023		1.5	
9/6/2023			
9/7/2023	0.26		0.071
9/8/2023		1.5	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.28		0.083
2/2/2024			
2/5/2024		1.6	
9/5/2024			
9/9/2024			0.059
9/10/2024	0.28		
9/11/2024		1.5	

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		1.1							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.44								
1/30/2019		2							
3/12/2019									
3/13/2019									
9/11/2019	0.26								
9/12/2019		2							
9/18/2019			0.3						
9/23/2019				1.4					
10/15/2019									
10/16/2019									
10/21/2019		1.9		1.2	0.28				
10/22/2019	0.22								
10/24/2019			0.31						
11/22/2019						3.6			
12/18/2019							3.9		
12/19/2019								3.3	
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			0.27						
9/25/2020					0.35	1.8			
9/28/2020				1.1				3	
3/1/2021									
3/4/2021			0.35		0.33				
3/5/2021						3.5			
3/9/2021							2.9	3.4	
3/12/2021									
9/9/2021									
9/13/2021						2			
9/14/2021	0.35	2.1	0.29	0.78					
9/15/2021							2.3	3.1	3.3
9/16/2021					0.3				
1/18/2022									
1/20/2022	0.21		0.28						
1/21/2022					0.32				
1/25/2022		2.3		0.7					
1/26/2022							2.7	3.6	3.7

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						2.7			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							2.9	3.6	
9/13/2022			0.33		0.33				3.7
9/14/2022	0.38								
9/16/2022		2.2		0.61		2.1			
1/31/2023							2.6	3.3	
2/1/2023									3.7
2/2/2023	0.47								
2/3/2023					0.31				
2/6/2023			0.31						
2/7/2023		2.1		0.53		2.3			
9/6/2023							3.2	3	3.7
9/7/2023	0.34								
9/11/2023		2.1		0.38					
9/12/2023			0.26		0.29	1.9			
1/30/2024							3.1	3	
1/31/2024									3.7
2/1/2024	0.45	2.1		0.36	0.39				
2/5/2024			0.28			2.4			
9/4/2024							2.4	2.5	3.6
9/5/2024									
9/6/2024	0.42				0.27				
9/9/2024		2		0.34					
9/10/2024						2.4			
9/11/2024			0.3						

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
11/22/2016			
3/28/2017		0.0612	0.0067 (J)
5/11/2017		0.0805	
5/15/2017			0.0073 (J)
6/15/2017		0.0725	<0.04
7/11/2017			<0.04
7/12/2017		0.0735	
8/8/2017			<0.04
10/24/2017		0.077	0.0082 (J)
2/27/2018			0.0062 (J)
3/8/2018		0.13 (J)	
7/10/2018			0.0077 (J)
7/12/2018		0.076	
11/6/2018			<0.04 (J)
11/7/2018		0.073	
1/28/2019			
1/30/2019			
3/12/2019			0.0073 (J)
3/13/2019		0.08	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.04
10/16/2019		0.059	
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
3/2/2020			0.0055 (J)
3/9/2020		0.08 (J)	
9/22/2020		0.056 (J)	<0.04
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.04
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.064	
9/9/2021		0.065	<0.04
9/13/2021			
9/14/2021			
9/15/2021	2.6		
9/16/2021			
1/18/2022			0.024 (J)
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.12		

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		0.062	
9/7/2022			<0.04
9/8/2022		0.054	
9/12/2022			
9/13/2022	0.62		
9/14/2022			
9/16/2022			
1/31/2023	0.083		0.011 (J)
2/1/2023		0.051	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.3		0.012 (J)
9/7/2023		0.052	
9/11/2023			
9/12/2023			
1/30/2024	0.081	0.065	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.04
9/5/2024	0.82		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		0.042	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		3.5	0.914			0.0419 (J)			
9/1/2016				7.64					3.08
9/2/2016									
9/6/2016					1		1.25		
9/7/2016								0.683	
12/6/2016		3.3	1.15			0.0804			
12/7/2016				8.07	0.9		1.56		3.34
12/8/2016								0.688	
3/28/2017	0.0097 (J)								
3/29/2017		4.3	1.07	8.46		0.103			3.96
3/30/2017					0.898		1.5	0.743	
5/11/2017									
5/12/2017	0.0082 (J)								
6/15/2017									
6/16/2017	0.0085 (J)								
7/11/2017	0.0077 (J)								
7/12/2017		3.38	1.14	7.55	0.996	0.044	1.49	0.62	2.82
10/24/2017	0.0083 (J)	3.45	1.18						
10/25/2017				9.97		0.0565	1.47	0.739	3.19
11/15/2017					0.795				
2/27/2018	0.0069 (J)	3.23	1.17	8.03		0.0539			
2/28/2018					0.106		1.58	0.627	2.91
7/10/2018	0.0059 (J)								
7/11/2018				10.2		0.057	1.4	0.79	3.7
11/6/2018	<0.04 (J)	2.1	1.2						
11/7/2018				7.7	0.76	0.055	0.8	1.6	2.6
3/12/2019	0.0068 (J)	0.98	1.2	4.8					
3/13/2019					0.62	0.047		0.76	2.6
3/14/2019							1.6		
9/17/2019				6.9					
10/15/2019	0.0054 (J)	1.6	1.2	5.9					
10/16/2019					0.65	0.052			2.2
10/17/2019							1.5		
10/18/2019								0.82	
3/2/2020	0.01 (J)		1.6	3.3					
3/3/2020		1.5			0.61	0.15	1.7		3.1
3/4/2020								0.85	
9/22/2020	<0.04		1.3	4.2		0.086 (J)			2.6
9/23/2020					0.57		1.6		
9/24/2020		0.45						0.88	
3/1/2021	0.0054 (J)								
3/2/2021			1.3		0.58	0.089	1.4		2.3
3/3/2021				3.6				0.71	
3/4/2021		0.65							
9/8/2021	<0.04								
9/9/2021			1.5	2	0.62	0.08	1.6		2.7
9/10/2021		0.24							
9/13/2021								0.78	
1/18/2022	0.015 (J)								
1/20/2022									
1/21/2022									
1/24/2022							1.4	0.9	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/25/2022			1.7	0.7	0.69	0.097			2.5
1/26/2022		0.4							
9/7/2022	<0.04								
9/13/2022						0.091	1.5		
9/14/2022								0.87	2.4
9/15/2022		0.42	1.7	3.3	0.69				
9/20/2022									
1/31/2023	0.0097 (J)								
2/1/2023					0.54	0.16			
2/2/2023		0.34					1.3		
2/6/2023			1.6	0.51				0.83	2.2
2/7/2023									
9/6/2023	0.015 (J)								
9/8/2023			1.7		0.55	0.11	1.4		2.2
9/11/2023		0.28		0.46					
9/13/2023								1	
1/30/2024	0.015 (J)								
1/31/2024					0.63				
2/1/2024			1.5						2.4
2/2/2024		0.17		0.41					
2/5/2024						0.13	1.6		
2/6/2024								0.93	
9/4/2024	<0.04								
9/5/2024				1.7	0.51		1.3		2.3
9/9/2024			1.5						
9/10/2024						0.12		0.85	
9/11/2024		0.18 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		6.77	4.81
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		6.04	
12/8/2016			3.57
3/28/2017			
3/29/2017		8.23	
3/30/2017	1.56		5.68
5/11/2017	1.65		
5/12/2017			
6/15/2017	1.44		
6/16/2017			
7/11/2017	1.39		
7/12/2017		6.81	5.2
10/24/2017	1.18		
10/25/2017		8.94	7.92
11/15/2017			
2/27/2018	1.12		
2/28/2018		6.26	5.89
7/10/2018			
7/11/2018	0.82	5.7	8.3
11/6/2018	0.9		
11/7/2018		5	4.9
3/12/2019	0.72		
3/13/2019		5.6	6.2
3/14/2019			
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.73	5	7
10/18/2019			
3/2/2020			
3/3/2020	0.68		6.8
3/4/2020		3.6	
9/22/2020		4.9	
9/23/2020	0.57		
9/24/2020			6.1
3/1/2021			
3/2/2021	0.52	3.4	
3/3/2021			5.3
3/4/2021			
9/8/2021			
9/9/2021	0.51		5.8
9/10/2021		4.8	
9/13/2021			
1/18/2022			
1/20/2022	0.5		6.9
1/21/2022		3.6	
1/24/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		4.2	6.7
9/20/2022	0.42		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.38		
2/7/2023		3	5.6
9/6/2023			
9/8/2023			
9/11/2023		2.5	7.1
9/13/2023	0.38		
1/30/2024			
1/31/2024			6.5
2/1/2024	0.37	2.7	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			5.7
9/5/2024		2.6	
9/9/2024	0.34		
9/10/2024			
9/11/2024			

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								2.63	1.72
8/31/2016							7.5		
9/1/2016					0.345	0.955			
9/2/2016	3.99								
9/7/2016				0.924					
12/6/2016							5.64	2.72	1.92
12/8/2016	3.1			0.957	0.352	0.919			
3/28/2017			4.01				6.16		2.01
3/29/2017	4.85							3.04	
3/30/2017		4.68				0.925			
3/31/2017				0.989	0.312				
5/12/2017		4.03	3.58						
6/15/2017		4.11	3.58						
7/11/2017			3.85				4.61	2.55	1.78
7/12/2017		3.74							
7/13/2017	3.85			1.03	0.28	0.972			
10/24/2017			3.82					2.29	1.72
10/25/2017	3.9			0.982			4		
10/26/2017		4.07			0.269	0.746			
2/27/2018			4.06				4.29	2.07	1.68
2/28/2018	5.14			0.918					
3/1/2018		4.37			0.296				
3/2/2018						0.878			
7/11/2018				0.83					1.4
7/12/2018	3.6	4			0.26	0.82			
11/6/2018			4.1				4.2	1.7	1.4
11/7/2018	3.3			0.89	0.3	0.74			
11/8/2018		4.7							
3/12/2019			4.6				4.3	1.5	1.2
3/14/2019	4.1	4.7		0.89	0.26	0.72			
10/15/2019			5						
10/16/2019							4.3	1.2	
10/17/2019				0.94	0.25				1.2
10/18/2019	4.2	4.5				0.74			
3/2/2020			5.9				5.5		
3/3/2020	4.6							1.5	1.1
3/4/2020		4.8		1	0.24	0.77			
9/22/2020			4.3	0.88			4.6		0.78
9/23/2020					0.21	0.65		1	
9/24/2020	4.1	4.6							
3/1/2021			4.7						
3/2/2021							4.3	0.96	0.77
3/3/2021	3.9	4		0.87	0.17	0.57			
9/9/2021		4.7							
9/10/2021	4.5		5		0.16	0.55	4.7		0.54
9/13/2021				0.95				0.86	
1/20/2022	4.2	4.5		0.83					
1/21/2022					0.17				
1/24/2022			5.1			0.61	4.4		
1/25/2022								0.98	
1/26/2022									0.69
9/13/2022				1.1	0.18	0.61			

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/14/2022							5		
9/15/2022								0.83	
9/16/2022	4.2								
9/19/2022			4.8						0.8
9/20/2022		4.6							
2/1/2023				0.94					
2/3/2023			4.5		0.16	0.59			0.61
2/6/2023	3.8	4.4							
2/7/2023							3.5	0.74	
3/21/2023									
4/10/2023									
9/11/2023	3.9	4.4							
9/12/2023					0.1			0.75	
9/13/2023			5.1	1.1		0.57	2.8		
9/14/2023									
1/30/2024				1.1					
1/31/2024	4.5	5.3							
2/1/2024			4.3				2.5	0.69	
2/5/2024					0.13	0.46			
9/5/2024		5.1		1.1	0.15				
9/6/2024			3.7				2.7		
9/9/2024	4.1							0.57	
9/10/2024						0.45			
9/11/2024									0.48

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	

Time Series

Constituent: Boron (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	1.1
4/10/2023	1
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	1.1
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.95
9/5/2024	
9/6/2024	
9/9/2024	0.91
9/10/2024	
9/11/2024	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.00059 (J)								
9/24/2020									
9/25/2020	0.00027 (J)								
9/28/2020									
12/9/2020				<0.0005		<0.0005	<0.0005	<0.0005	
12/17/2020			0.00067 (J)		0.0002 (J)				
1/11/2021			0.0008 (J)						
1/12/2021		<0.0005		<0.0005				<0.0005	
3/3/2021									
3/4/2021			0.00081	<0.0005	0.00021 (J)	<0.0005	<0.0005		
3/5/2021		<0.0005						<0.0005	
3/8/2021	0.00027 (J)								
3/12/2021									
4/15/2021									0.001
9/9/2021									
9/10/2021			0.00083						
9/13/2021	0.00029 (J)	<0.0005			0.00024 (J)	<0.0005			
9/14/2021				<0.0005			<0.0005	<0.0005	0.0011
1/20/2022									0.00098
1/21/2022	0.00059								
1/24/2022				<0.0005		<0.0005	<0.0005	<0.0005	
1/25/2022					0.00012 (J)				
1/26/2022		0.00011 (J)							
1/27/2022			0.00091						
6/6/2022									
9/8/2022	0.00027 (J)								
9/13/2022				<0.0005					
9/14/2022						<0.0005		<0.0005	
9/15/2022			0.00091				<0.0005		
9/16/2022		<0.0005			<0.0005				
9/19/2022									0.0012
2/2/2023	<0.0005		0.00087						
2/3/2023		<0.0005		<0.0005					0.0011
2/6/2023						<0.0005			
2/7/2023					<0.0005		<0.0005	<0.0005	
9/6/2023	0.00035 (J)								
9/7/2023									
9/8/2023		<0.0005							
9/11/2023			0.00072		<0.0005				
9/12/2023						<0.0005			0.001
9/13/2023				<0.0005			<0.0005	<0.0005	
1/31/2024	0.00033 (J)								
2/1/2024						<0.0005	0.00018 (J)		
2/2/2024		<0.0005	0.00061		<0.0005				
2/5/2024				<0.0005				<0.0005	0.00097
9/5/2024	<0.0005								
9/9/2024					<0.0005	<0.0005	0.00015 (J)	<0.0005	0.00081
9/10/2024		<0.0005	0.00071	<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.0005
9/11/2019			<0.0005
10/21/2019			<0.0005
8/13/2020			<0.0005
8/17/2020		0.00029 (J)	
9/24/2020			<0.0005
9/25/2020			
9/28/2020		0.00024 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/15/2021			
9/9/2021			<0.0005
9/10/2021			
9/13/2021		0.00028 (J)	
9/14/2021			
1/20/2022			<0.0005
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.00025 (J)	
6/6/2022	<0.0005		
9/8/2022			<0.0005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0003 (J)	
9/19/2022			
2/2/2023			<0.0005
2/3/2023			
2/6/2023	<0.0005		
2/7/2023		0.00036 (J)	
9/6/2023			
9/7/2023	<0.0005		<0.0005
9/8/2023		0.00034 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.0005		<0.0005
2/2/2024			
2/5/2024		0.00036 (J)	
9/5/2024			
9/9/2024			<0.0005
9/10/2024	<0.0005		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		0.00034 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.0005								
1/30/2019		<0.0005							
8/27/2019									
8/28/2019									
9/11/2019	<0.0005								
9/12/2019		<0.0005							
9/18/2019			<0.0005						
9/23/2019				0.00044 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.0005		0.00035 (J)	0.00041 (J)				
10/22/2019	0.00014 (J)								
10/24/2019			<0.0005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.0005						
8/14/2020					0.00037 (J)				
8/17/2020				0.00058 (J)		0.0018 (J)			
8/19/2020								0.00077 (J)	
9/22/2020									
9/24/2020			<0.0005						
9/25/2020					0.00026 (J)	0.00022 (J)			
9/28/2020				0.00066 (J)				0.00074 (J)	
3/1/2021									
3/4/2021			<0.0005		0.00032 (J)				
3/5/2021						0.0065			
3/9/2021								0.00075 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.0013			
9/14/2021	0.00025 (J)	<0.0005	<0.0005	0.0007					
9/15/2021							0.00096	0.00088	0.00056
9/16/2021					0.0003 (J)				
1/18/2022									
1/20/2022	<0.0005		<0.0005						
1/21/2022					0.0003 (J)				
1/25/2022		<0.0005		0.00072					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							0.001	0.00079	0.00055
1/27/2022						0.0036			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.0014	0.00084	
9/13/2022			<0.0005		0.00031 (J)				0.00055
9/14/2022	0.00018 (J)								
9/16/2022		<0.0005		0.00073		0.0019			
1/31/2023							0.0015	0.00089	
2/1/2023									0.00063
2/2/2023	<0.0005								
2/3/2023					0.0003 (J)				
2/6/2023			<0.0005						
2/7/2023		<0.0005		0.00081		0.0033			
9/6/2023							0.0008	0.001	0.00059
9/7/2023	0.00028 (J)								
9/11/2023		0.00018 (J)		0.00058					
9/12/2023			<0.0005		0.00027 (J)	0.0026			
1/30/2024							0.0013	0.0008	
1/31/2024									0.00064
2/1/2024	0.00014 (J)	0.00018 (J)		0.00072	0.00027 (J)				
2/5/2024			<0.0005			0.0023			
9/4/2024							0.0011	0.00078	0.00063
9/5/2024									
9/6/2024	<0.0005				0.00025 (J)				
9/9/2024		0.00066		0.00071					
9/10/2024						0.0035			
9/11/2024			<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.0005	<0.0005
5/11/2017		8E-05 (J)	
5/15/2017			<0.0005
6/15/2017		<0.0005	<0.0005
7/11/2017			<0.0005
7/12/2017		<0.0005	
8/8/2017			<0.0005
10/24/2017		<0.0005	<0.0005
2/27/2018			<0.0005
3/8/2018		<0.0005	
7/10/2018			<0.0005
7/12/2018		0.00013 (J)	
11/6/2018			<0.0005
11/7/2018		<0.0005	
1/28/2019			
1/30/2019			
8/27/2019			<0.0005
8/28/2019		<0.0005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.0005
10/16/2019		<0.0005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.00041 (J)
3/9/2020		<0.0005	
8/11/2020			<0.0005
8/13/2020		<0.0005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0005	<0.0005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.0005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0005	
9/9/2021		<0.0005	<0.0005
9/13/2021			
9/14/2021			
9/15/2021	0.0003 (J)		
9/16/2021			
1/18/2022			<0.0005
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.0005		
1/27/2022			
1/28/2022		<0.0005	
9/7/2022			<0.0005
9/8/2022		<0.0005	
9/12/2022			
9/13/2022	0.00031 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.0005		<0.0005
2/1/2023		0.00019 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00015 (J)		<0.0005
9/7/2023		<0.0005	
9/11/2023			
9/12/2023			
1/30/2024	<0.0005	<0.0005	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.0005
9/5/2024	0.00085		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0012	<0.0005			<0.0005			
9/1/2016				0.0004 (J)					0.0004 (J)
9/2/2016									
9/6/2016					<0.0005		<0.0005		
9/7/2016								0.0003 (J)	
12/6/2016		0.0013	<0.0005			<0.0005			
12/7/2016				0.0003 (J)	0.0002 (J)		9E-05 (J)		0.0004 (J)
12/8/2016								0.0003 (J)	
3/28/2017	<0.0005								
3/29/2017		0.0013	<0.0005	0.0003 (J)		<0.0005			0.0004 (J)
3/30/2017					8E-05 (J)		9E-05 (J)	0.0003 (J)	
5/11/2017									
5/12/2017	<0.0005								
6/15/2017									
6/16/2017	<0.0005								
7/11/2017	<0.0005								
7/12/2017		0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	<0.0005	0.0002 (J)	0.0004 (J)
10/24/2017	<0.0005	0.0014	<0.0005						
10/25/2017				0.0004 (J)		<0.0005	<0.0005	0.0002 (J)	0.0004 (J)
11/15/2017					<0.0005				
2/27/2018	<0.0005	0.001	<0.0005	<0.0005		<0.0005			
2/28/2018					<0.0005		<0.0005	<0.001	<0.001
7/10/2018	<0.0005								
7/11/2018				0.00033 (J)		<0.0005	<0.0005	0.00029 (J)	0.00039 (J)
11/6/2018	<0.0005	0.0012	<0.0005						
11/7/2018				<0.001 (J)	<0.0005	<0.0005	<0.001 (J)	<0.001	<0.001 (J)
8/27/2019	<0.0005	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0005		0.00033 (J)	
8/28/2019					<0.0005		<0.0005		0.00033 (J)
8/29/2019									
9/17/2019				0.00035 (J)					
10/15/2019	<0.0005	0.00095 (J)	<0.0005	0.00025 (J)					
10/16/2019					<0.0005	<0.0005			0.00034 (J)
10/17/2019							<0.0005		
10/18/2019								0.00029 (J)	
3/2/2020	<0.0005		<0.0005	<0.0005					
3/3/2020		0.00095 (J)			<0.0005	<0.0005	0.00012 (J)		0.00037 (J)
3/4/2020								0.00028 (J)	
8/11/2020	<0.0005	0.00071 (J)	<0.0005	0.00038 (J)		<0.0005			0.0003 (J)
8/12/2020					<0.0005				
8/13/2020							0.00013 (J)		
8/14/2020								0.00029 (J)	
9/22/2020	<0.0005		0.00016 (J)	0.00017 (J)		<0.0005			0.00036 (J)
9/23/2020					<0.0005		<0.0005		
9/24/2020		0.00055 (J)						0.00024 (J)	
3/1/2021	<0.0005								
3/2/2021			0.00013 (J)		<0.0005	<0.0005	<0.0005		0.00035 (J)
3/3/2021				0.00016 (J)				0.00023 (J)	
3/4/2021		0.00088							
9/8/2021	<0.0005								
9/9/2021			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.00037 (J)
9/10/2021		0.00061							
9/13/2021								0.00023 (J)	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.0005								
1/20/2022									
1/21/2022									
1/24/2022							<0.0005	0.00027 (J)	
1/25/2022			0.00016 (J)	<0.0005	<0.0005	<0.0005			0.00041 (J)
1/26/2022		0.0007							
9/7/2022	<0.0005								
9/13/2022						<0.0005	<0.0005		
9/14/2022								0.00024 (J)	0.00032 (J)
9/15/2022		0.00047 (J)	<0.0005	0.00017 (J)	<0.0005				
9/20/2022									
1/31/2023	<0.0005								
2/1/2023					<0.0005	<0.0005			
2/2/2023		0.00059					<0.0005		
2/6/2023			0.00015 (J)	<0.0005				0.00028 (J)	0.00029 (J)
2/7/2023									
9/6/2023	<0.0005								
9/8/2023			0.00014 (J)		<0.0005	<0.0005	<0.0005		0.00034 (J)
9/11/2023		0.0006		<0.0005					
9/13/2023								0.00019 (J)	
1/30/2024	<0.0005								
1/31/2024					<0.0005				
2/1/2024			0.00017 (J)						0.00029 (J)
2/2/2024		0.00039 (J)		<0.0005					
2/5/2024						<0.0005	<0.0005		
2/6/2024								0.00027 (J)	
9/4/2024	<0.0005								
9/5/2024				0.00014 (J)	<0.0005		0.0001 (J)		0.0003 (J)
9/9/2024			<0.0005						
9/10/2024						<0.0005		0.00024 (J)	
9/11/2024		0.00047 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0023	0.0006 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0023	
12/8/2016			0.0006 (J)
3/28/2017			
3/29/2017		0.0021	
3/30/2017	0.0005 (J)		0.0008 (J)
5/11/2017	0.0004 (J)		
5/12/2017			
6/15/2017	0.0003 (J)		
6/16/2017			
7/11/2017	0.0003 (J)		
7/12/2017		0.0021	0.0006 (J)
10/24/2017	0.0003 (J)		
10/25/2017		0.002	0.0005 (J)
11/15/2017			
2/27/2018	<0.0005		
2/28/2018		0.0018	<0.0005
7/10/2018			
7/11/2018	0.00018 (J)	0.0018	0.00054 (J)
11/6/2018	<0.001 (J)		
11/7/2018		0.0018	<0.001 (J)
8/27/2019	0.00012 (J)		
8/28/2019			
8/29/2019		0.002 (J)	0.00087 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.00013 (J)	0.0017 (J)	0.0006 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.00014 (J)		0.00063 (J)
3/4/2020		0.0026	
8/11/2020	<0.0005		
8/12/2020			
8/13/2020		0.0021 (J)	
8/14/2020			0.00054 (J)
9/22/2020		0.0014 (J)	
9/23/2020	0.00013 (J)		
9/24/2020			0.00073 (J)
3/1/2021			
3/2/2021	<0.0005	0.0025	
3/3/2021			0.00044 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.0005		0.00012 (J)
9/10/2021		0.0012	
9/13/2021			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.0005		<0.0005
1/21/2022		0.0028	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0021	0.00029 (J)
9/20/2022	<0.0005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0005		
2/7/2023		0.0027	0.00059
9/6/2023			
9/8/2023			
9/11/2023		0.0038	0.00054
9/13/2023	<0.0005		
1/30/2024			
1/31/2024			0.00057
2/1/2024	<0.0005	0.003	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.00077
9/5/2024		0.0045	
9/9/2024	<0.0005		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0019	0.0004 (J)
8/31/2016							0.0002 (J)		
9/1/2016					0.0017	0.0013			
9/2/2016	0.0003 (J)								
9/7/2016				0.0007 (J)					
12/6/2016							0.0004 (J)	0.0025	0.0005 (J)
12/8/2016	0.0004 (J)			0.0003 (J)	0.0002 (J)	0.0042			
3/28/2017			0.0006 (J)				0.0002 (J)		0.0005 (J)
3/29/2017	0.0004 (J)							0.0024	
3/30/2017		0.0002 (J)				0.0089			
3/31/2017				0.0009 (J)	0.002				
5/12/2017		0.0003 (J)	0.0006 (J)						
6/15/2017		0.0002 (J)	0.0005 (J)						
7/11/2017			0.0006 (J)				0.0003 (J)	0.0021	0.0005 (J)
7/12/2017		0.0002 (J)							
7/13/2017	0.0005 (J)			0.0008 (J)	0.0017	0.0033			
10/24/2017			0.0007 (J)					0.0029	0.0006 (J)
10/25/2017	0.0007 (J)			0.0005 (J)			0.0006 (J)		
10/26/2017		0.0003 (J)			0.0015	0.0032			
2/27/2018			<0.001				<0.001	0.0029	<0.001
2/28/2018	<0.001			<0.001					
3/1/2018		<0.0005			0.0025				
3/2/2018						0.0049			
7/11/2018				0.0024					0.00067 (J)
7/12/2018	0.00091 (J)	0.00028 (J)			0.0021	0.0032			
11/6/2018			<0.001 (J)				<0.001 (J)	0.0027	<0.001 (J)
11/7/2018	<0.001 (J)			<0.001 (J)	0.0016	0.0031			
11/8/2018		<0.001 (J)							
8/27/2019			0.00072 (J)				0.00082 (J)		0.00071 (J)
8/28/2019				0.0015 (J)				0.0022 (J)	
8/29/2019	0.00053 (J)	0.00022 (J)			0.0021 (J)	0.003			
10/15/2019			0.00077 (J)						
10/16/2019							0.00069 (J)	0.0022 (J)	
10/17/2019				0.00058 (J)	0.0033				0.00064 (J)
10/18/2019	0.00056 (J)	0.00022 (J)				0.0028			
3/2/2020			0.00088 (J)				0.00089 (J)		
3/3/2020	0.00061 (J)							0.002 (J)	0.00059 (J)
3/4/2020		0.00024 (J)		0.00037 (J)	0.0017 (J)	0.0036			
8/11/2020									0.00059 (J)
8/12/2020			0.0008 (J)		0.001 (J)		0.00079 (J)	0.0021 (J)	
8/13/2020		0.00027 (J)		0.0013 (J)		0.0028			
8/14/2020	0.00057 (J)								
9/22/2020			0.00065 (J)	0.0007 (J)			0.00072 (J)		0.00059 (J)
9/23/2020					0.0013 (J)	0.0025		0.0018 (J)	
9/24/2020	0.00058 (J)	0.00018 (J)							
3/1/2021			0.00085						
3/2/2021							0.00075	0.0017	0.00057
3/3/2021	0.0005	0.00015 (J)		0.00038 (J)	0.0016	0.0033			
9/9/2021		0.00019 (J)							
9/10/2021	0.00061		0.0009		0.0014	0.0028	0.00093		0.00053
9/13/2021				0.00042 (J)				0.002	
1/20/2022	0.00052	0.00012 (J)		0.00038 (J)					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.0019				
1/24/2022			0.00098			0.0029	0.00094		
1/25/2022								0.0016	
1/26/2022									0.00059
9/13/2022				0.00069	0.0011	0.0026			
9/14/2022							0.00087		
9/15/2022								0.0011	
9/16/2022	0.00065								
9/19/2022			0.00091						0.00076
9/20/2022		0.00017 (J)							
2/1/2023				0.00075					
2/3/2023			0.001		0.0013	0.0024			0.00053
2/6/2023	0.00045 (J)	0.00021 (J)							
2/7/2023							0.0012	0.00087	
9/11/2023	0.0006	<0.0005							
9/12/2023					0.00083			0.0015	
9/13/2023			0.00099	0.00068		0.0026	0.0013		
9/14/2023									
1/30/2024				0.001					
1/31/2024	0.00055	0.00012 (J)							
2/1/2024			0.00099				0.0012	0.0011	
2/5/2024					0.0011	0.0022			
9/5/2024		<0.0005		0.00098	0.0031				
9/6/2024			0.00082				0.001		
9/9/2024	0.0005 (J)							0.00068	
9/10/2024						0.0022			
9/11/2024									0.00058

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.0005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.0005
9/5/2024	
9/6/2024	
9/9/2024	<0.0005
9/10/2024	
9/11/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
9/25/2020	44.7								
9/28/2020									
12/9/2020				154		85.4	90.5	105	
12/17/2020			71.5		43.2				
1/11/2021			73						
1/12/2021		56.3		156				103	
3/3/2021									
3/4/2021			79.7	150	42.1	83.9	86.6		
3/5/2021		68.9						110	
3/8/2021	47.7								
3/12/2021									
4/15/2021									171
9/9/2021									
9/10/2021			84.7						
9/13/2021	51.5	53.6			42.1	83.6			
9/14/2021				151			83.3	98.4	162
1/20/2022									158
1/21/2022	49.9								
1/24/2022				163		89.9	88.2	107	
1/25/2022					40				
1/26/2022		49.7							
1/27/2022			86.9						
6/6/2022									
9/8/2022	46								
9/13/2022				153					
9/14/2022						82.6		90.7	
9/15/2022			70.3				85.1		
9/16/2022		57			35.3				
9/19/2022									142
2/2/2023	46.9		68						
2/3/2023		41.8		142					121
2/6/2023						76			
2/7/2023					30.7		83.1	91.5	
9/6/2023	49.9								
9/7/2023									
9/8/2023		96.6							
9/11/2023			71.9		35.3				
9/12/2023						80.8			110
9/13/2023				152			83.9	93.4	
1/31/2024	24.3								
2/1/2024						78.9	75.3		
2/2/2024		92.4	64.5		28.9				
2/5/2024				157				102	115
9/5/2024	41.6								
9/9/2024					26.3	73.7	75.6	91	95
9/10/2024		98	74.4	153					
9/11/2024									

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			51.4
10/21/2019			31.2
9/24/2020			28.8
9/25/2020			
9/28/2020		15.1	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		18.5	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			28.8
4/15/2021			
9/9/2021			29.2
9/10/2021			
9/13/2021		15.2	
9/14/2021			
1/20/2022			36.3
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		19.8	
6/6/2022	48.3		
9/8/2022			31.4
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		18.4	
9/19/2022			
2/2/2023			32.4
2/3/2023			
2/6/2023	47.3		
2/7/2023		20.1	
9/6/2023			
9/7/2023	52.3		35.1
9/8/2023		19.8	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	53.6		33.2
2/2/2024			
2/5/2024		22.5	
9/5/2024			
9/9/2024			30.8
9/10/2024	50.2		
9/11/2024		19.8	

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<25								
1/30/2019		62.4							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		85.5		27	35.1				
10/22/2019	20.7								
10/24/2019			15.6						
11/22/2019						156			
12/18/2019							139		
12/19/2019								168	
2/17/2020									190
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			17.9						
9/25/2020					39.8	79.8			
9/28/2020				26.5				110	
3/1/2021									
3/4/2021			14.8		39.1				
3/5/2021						128			
3/9/2021								127	
3/12/2021									
9/9/2021									
9/13/2021						80.5			
9/14/2021	22.7	60.9	17	33.4					
9/15/2021							110	129	178
9/16/2021					39.4				
1/18/2022									
1/20/2022	22.9		18.6						
1/21/2022					40.8				
1/25/2022		54.9		36.4					
1/26/2022							96	141	198
1/27/2022						105			
1/28/2022									
9/7/2022									
9/8/2022									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/12/2022							104	133	
9/13/2022			15.7		36.2				201
9/14/2022	26.3								
9/16/2022		63.9		34.3		97.6			
1/31/2023							95	123	
2/1/2023									192
2/2/2023	21.2								
2/3/2023					31.4				
2/6/2023			14.8						
2/7/2023		45.3		37		92.4			
9/6/2023							158	148	220
9/7/2023	23.7								
9/11/2023		46.7		52.3					
9/12/2023			19.2		32.4	102			
1/30/2024							126	140	
1/31/2024									200
2/1/2024	22.6	43.5		55.7	33.1				
2/5/2024			19			118			
9/4/2024							125	123	237
9/5/2024									
9/6/2024	20.2				29.5				
9/9/2024		33.5		34.3					
9/10/2024						94.4			
9/11/2024			14.3						

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		30.8	5.14
5/11/2017		35.8	
5/15/2017			6.5
6/15/2017		36	5.38
7/11/2017			5.96
7/12/2017		40.3	
8/8/2017			5.2
10/24/2017		30.3	4.93
2/27/2018			<25
3/8/2018		39.8	
7/10/2018			5
7/12/2018		34.7	
11/6/2018			5.5
11/7/2018		28.6	
1/28/2019			
1/30/2019			
3/12/2019			5.1
3/13/2019		26.7	
10/15/2019			5.1
10/16/2019		17.7	
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
2/17/2020	85.9		
3/2/2020			5.3
3/9/2020		23.7	
9/22/2020		15.5	5
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			4.1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		18.4	
9/9/2021		18.3	5.3
9/13/2021			
9/14/2021			
9/15/2021	105		
9/16/2021			
1/18/2022			6.1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	31.9		
1/27/2022			
1/28/2022		19.5	
9/7/2022			5.9
9/8/2022		17.2	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/12/2022			
9/13/2022	63.3		
9/14/2022			
9/16/2022			
1/31/2023	40.6		6.2
2/1/2023		14.1	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	43.2		6.6
9/7/2023		16.3	
9/11/2023			
9/12/2023			
1/30/2024	32.7	13.7	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			6.3
9/5/2024	74.8		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		10.6	

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		81.7	44.2			9.95			
9/1/2016				80.6					65.6
9/2/2016									
9/6/2016					44		33.6		
9/7/2016								8.61	
12/6/2016		74.2	48.3			10.4			
12/7/2016				82.1	39.8		34.7		68.3
12/8/2016								7.92	
3/28/2017	8.31								
3/29/2017		79.5	50.5	88.3		14.4			68
3/30/2017					46.3		36.9	9.56	
5/11/2017									
5/12/2017	8.04								
6/15/2017									
6/16/2017	7.66								
7/11/2017	7.71								
7/12/2017		86.3	50.8	87	47.8	10.5	38.4	10.4	70
10/24/2017	6.86	81.5	55						
10/25/2017				92.1		9.67	36.2	10.9	77
11/15/2017					49.3				
2/27/2018	<25	96.2	51.4	85.6		<25			
2/28/2018					<25		35	<25	72
7/10/2018	5.7								
7/11/2018				93.6		9.9	37.5	13 (J)	82.7
11/6/2018	5.7	94.8	62.6						
11/7/2018				73.3	44.8	9.7	11.4	37	81.7
3/12/2019	5.5	83.5	61.4	62.1					
3/13/2019					42.1	9.7		11.9 (J)	76.9
3/14/2019							34.7		
10/15/2019	5.1	79.1	61.2	61.4					
10/16/2019					43.8	9.4			85.7
10/17/2019							37		
10/18/2019								12.9	
3/2/2020	5.8		65.8	46.5					
3/3/2020		63.6			49.3	14	37.8		86.8
3/4/2020								15.8	
9/22/2020	5.4		72.7	55.4		11.6			103
9/23/2020					39		35.6		
9/24/2020		53.1						12.7	
3/1/2021	5.9								
3/2/2021			65.3		40.5	11.4	36		93.2
3/3/2021				50.1				14.3	
3/4/2021		75.8							
9/8/2021	6.1								
9/9/2021			66.8	29.2	38.2	11.1	34.4		93.6
9/10/2021		82.4							
9/13/2021								15.8	
1/18/2022	6.6								
1/20/2022									
1/21/2022									
1/24/2022							33.2	15.6	
1/25/2022			70.2	28.5	43.2	12.4			101

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		76.8							
9/7/2022	6.4								
9/13/2022						11.2	34.4		
9/14/2022								16.4	105
9/15/2022		64.4	66.6	41.5	36.7				
9/20/2022									
1/31/2023	5.7								
2/1/2023					33.6	11.9			
2/2/2023		60.8					32.2		
2/6/2023			58.8	28.3				17.5	105
2/7/2023									
9/6/2023	7								
9/8/2023			58.6		32.7	12	34.3		115
9/11/2023		72.7		30.8					
9/13/2023								19.8	
1/30/2024	6.1								
1/31/2024					30.8				
2/1/2024			55.1						113
2/2/2024		79.3		31.7					
2/5/2024						12.7	32.8		
2/6/2024								19.7	
9/4/2024	6.5								
9/5/2024				32.9	28.9		30.2		106
9/9/2024			61.2						
9/10/2024						11.1		16.4	
9/11/2024		198							

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		96.3	70.2
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		91.9	
12/8/2016			70.1
3/28/2017			
3/29/2017		95.7	
3/30/2017	103		72.5
5/11/2017	102		
5/12/2017			
6/15/2017	96.2		
6/16/2017			
7/11/2017	98.4		
7/12/2017		100	80.4
10/24/2017	86		
10/25/2017		97.3	75.6
11/15/2017			
2/27/2018	66.7		
2/28/2018		86.3	73.2
7/10/2018			
7/11/2018	55	92.4	82.3
11/6/2018	54.5		
11/7/2018		85.9	78.5
3/12/2019	52.2		
3/13/2019		86.4	79.9
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	47.2	86.9	79.8
10/18/2019			
3/2/2020			
3/3/2020	48.4		87.4
3/4/2020		103	
9/22/2020		79.2	
9/23/2020	44.4		
9/24/2020			80
3/1/2021			
3/2/2021	44	74.7	
3/3/2021			82.1
3/4/2021			
9/8/2021			
9/9/2021	42		75.3
9/10/2021		69.8	
9/13/2021			
1/18/2022			
1/20/2022	44.6		83.7
1/21/2022		104	
1/24/2022			
1/25/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		70.1	82.2
9/20/2022	37.8		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	35.3		
2/7/2023		110	84.8
9/6/2023			
9/8/2023			
9/11/2023		114	88.4
9/13/2023	33.6		
1/30/2024			
1/31/2024			85.3
2/1/2024	33.3	112	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			81.9
9/5/2024		110	
9/9/2024	31.6		
9/10/2024			
9/11/2024			

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								82.7	64.9
8/31/2016							82.6		
9/1/2016					69.3	95.1			
9/2/2016	61.6								
9/7/2016				43.6					
12/6/2016							73.9	76.8	59.3
12/8/2016	60.1			45.8	71.1	105			
3/28/2017			229				89.1		71.6
3/29/2017	64.7							90.5	
3/30/2017		68.1				98.6			
3/31/2017				48.3	62.6				
5/12/2017		71.1	233						
6/15/2017		65.9	224						
7/11/2017			249				84.6	91.1	73.7
7/12/2017		70							
7/13/2017	67.2			52.3	52.5	102			
10/24/2017			232					78.1	92.5
10/25/2017	66.8			50.9			95.6		
10/26/2017		67.2			46.7	94			
2/27/2018			245				108	64.2	73.1
2/28/2018	62.3			45.1					
3/1/2018		66.5			44.2				
3/2/2018						86.6			
7/11/2018				47.8					88.5
7/12/2018	71	72			41.6	89.1			
11/6/2018			284				124	57	81.1
11/7/2018	60.9			45.5	38.6	88			
11/8/2018		73.5							
3/12/2019			295				110	54.3	78.1
3/14/2019	64.8	73.2		43.5	36.6	74.6			
10/15/2019			276						
10/16/2019							109	47.3	
10/17/2019				44.1	36.2				75.6
10/18/2019	61.7	67.7				72.7			
3/2/2020			320				116		
3/3/2020	68.7							46	59.5
3/4/2020		69.8		48.8	36	79.7			
9/22/2020			263	43.8			99.2		54.7
9/23/2020					22.3	72.2		39.3	
9/24/2020	62.6	73.7							
3/1/2021			322						
3/2/2021							114	35.6	48.8
3/3/2021	62.3	68.1		38.8	25.5	66			
9/9/2021		76.4							
9/10/2021	62.3		285		24.4	68.7	123		47.7
9/13/2021				38.9				36	
1/20/2022	67.3	82.7		38.1					
1/21/2022					31				
1/24/2022			299			61.2	112		
1/25/2022								36.8	
1/26/2022									48.4
9/13/2022				34.2	24.8	65.3			

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/14/2022							117		
9/15/2022								29.3	
9/16/2022	66.2								
9/19/2022			376						45.1
9/20/2022		90							
2/1/2023				32.7					
2/3/2023			287		23.7	64.1			43.8
2/6/2023	56.7	86.4							
2/7/2023							139	26	
3/21/2023									
4/10/2023									
9/11/2023	61.2	95.4							
9/12/2023					21.9			30	
9/13/2023			279	33.6		55	152		
9/14/2023									
1/30/2024				29.9					
1/31/2024	57.1	95.7							
2/1/2024			268				146	30.6	
2/5/2024					23.9	61.7			
9/5/2024		105		33	23.8				
9/6/2024			219				126		
9/9/2024	55.5							23.4	
9/10/2024						53.8			
9/11/2024									43.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	123
4/10/2023	139
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	140
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	10.5
9/5/2024	
9/6/2024	
9/9/2024	126
9/10/2024	
9/11/2024	

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
9/25/2020	13.2								
9/28/2020									
12/9/2020				7.7		12.5	29.1	12.8	
12/17/2020			10.3		8				
1/11/2021			9.8						
1/12/2021		20.6		7.5				15.7	
3/3/2021									
3/4/2021			10.4	7.9	7.8	13	29.4		
3/5/2021		9						39.2	
3/8/2021	12.9								
3/12/2021									
4/15/2021									6.2
9/9/2021									
9/10/2021			10.2						
9/13/2021	11.1	8.7			7	11.7			
9/14/2021				7.9			28.8	27.3	6.1
1/20/2022									6
1/21/2022	11.3								
1/24/2022				7.8		12.8	32.9	30.6	
1/25/2022					7.4				
1/26/2022		9							
1/27/2022			10.4						
6/6/2022									
9/8/2022	10.2								
9/13/2022				8					
9/14/2022						12.9		10.3	
9/15/2022			9.9				27.6		
9/16/2022		8.7			6.6				
9/19/2022									5.8
2/2/2023	11.7		10.8						
2/3/2023		9.1		7.8					6.1
2/6/2023						13.6			
2/7/2023					6.8		27.6	9.9	
9/6/2023	10								
9/7/2023									
9/8/2023		9.5							
9/11/2023			10.4		7.8				
9/12/2023						14.1			6
9/13/2023				7.7			29.9	10.2	
1/31/2024	7.5								
2/1/2024						14.4	28.9		
2/2/2024		9.9	10.3		8.1				
2/5/2024				7.1				20.3	5.7
9/5/2024	9.1								
9/9/2024					8.7	14.2	28.2	11.2	2
9/10/2024		9.9	11.3	7.7					
9/11/2024									

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			7.1
10/21/2019			6.5
9/24/2020			5.7
9/25/2020			
9/28/2020		8.7	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		8.3	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			5.9
4/15/2021			
9/9/2021			5.8
9/10/2021			
9/13/2021		7.1	
9/14/2021			
1/20/2022			5.6
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		7.6	
6/6/2022	18.4		
9/8/2022			5.3
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		6.9	
9/19/2022			
2/2/2023			5.8
2/3/2023			
2/6/2023	15.4		
2/7/2023		6.9	
9/6/2023			
9/7/2023	12.6		5.4
9/8/2023		6.8	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	12.7		5.6
2/2/2024			
2/5/2024		6.9	
9/5/2024			
9/9/2024			5.5
9/10/2024	11.2		
9/11/2024		7.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	7.9								
1/30/2019		9.3							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		9.9		14.3	3.4				
10/22/2019	18								
10/24/2019			3.3						
11/22/2019						9.1			
12/18/2019							9.4		
12/19/2019								10.4	
2/17/2020									20.9
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			5.3						
9/25/2020					3	10			
9/28/2020				9.9				10.8	
3/1/2021									
3/4/2021			2.9		3.2				
3/5/2021						7.8			
3/9/2021								13.5	
3/12/2021									
9/9/2021									
9/13/2021						8.2			
9/14/2021	7.1	8.9	4.7	9.5					
9/15/2021							10.4	13.2	18.8
9/16/2021					2.6				
1/18/2022									
1/20/2022	15		5						
1/21/2022					2.4				
1/25/2022		8.7		9.9					
1/26/2022							9.4	14.7	19.8
1/27/2022						8.8			
1/28/2022									
9/7/2022									

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/8/2022									
9/12/2022							10.2	15	
9/13/2022			2.4		2.5				19.5
9/14/2022	6.5								
9/16/2022		8.4		9.4		8.7			
1/31/2023							11.4	15.7	
2/1/2023									19.4
2/2/2023	7								
2/3/2023					2.5				
2/6/2023			3.5						
2/7/2023		8.7		12.1		8.4			
9/6/2023							13.6	16.8	17.2
9/7/2023	6.8								
9/11/2023		9		11.9					
9/12/2023			4		2.4	9.1			
1/30/2024							15	17.1	
1/31/2024									17.3
2/1/2024	6.3	9		11.9	2.4				
2/5/2024			3.2			8.9			
9/4/2024							14.8	15.9	16.8
9/5/2024									
9/6/2024	6				2.7				
9/9/2024		10		10					
9/10/2024						9.4			
9/11/2024			2.4						

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		3.7	3.8
5/11/2017		2.3	
5/15/2017			2.2
6/15/2017		2.6	2
7/11/2017			2.1
7/12/2017		2.3	
8/8/2017			2.2
10/24/2017		2.7	2.4
11/15/2017		2.2	
2/27/2018			2.5
3/8/2018		2.4	
7/10/2018			1.9
7/12/2018		2.2	
11/6/2018			2.3
11/7/2018		2.3	
1/28/2019			
1/30/2019			
3/12/2019			2.5
3/13/2019		3.6	
10/15/2019			2.2
10/16/2019		2	
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
2/17/2020	96.8		
3/2/2020			1.9
3/9/2020		1.8	
9/22/2020		1.6	1.9
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			1.9
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		2	
9/9/2021		1.8	1.9
9/13/2021			
9/14/2021			
9/15/2021	29.9		
9/16/2021			
1/18/2022			1.9
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	4.9		
1/27/2022			
1/28/2022		1.8	
9/7/2022			2.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/8/2022		1.6	
9/12/2022			
9/13/2022	4.9		
9/14/2022			
9/16/2022			
1/31/2023	2.8		2.2
2/1/2023		1.9	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	3.2		2.2
9/7/2023		1.7	
9/11/2023			
9/12/2023			
1/30/2024	4.4	1.6	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			2.2
9/5/2024	5.4		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		1.8	

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		11	11			3.1			
9/1/2016				13					41
9/2/2016									
9/6/2016					16		19		
9/7/2016								17	
12/6/2016		10	11			3.1			
12/7/2016				20 (O)	14		20		41
12/8/2016								19	
3/28/2017	3.6								
3/29/2017		11	12	13		3.8			42
3/30/2017					16		21	20	
5/11/2017									
5/12/2017	3.8								
6/15/2017									
6/16/2017	3.4								
7/11/2017	3.1								
7/12/2017		11	11	12	14	2.9	21	18	41
10/24/2017	3.2	11	12						
10/25/2017				13		3.5	21	19	41
11/15/2017	3.1	12			16				
2/27/2018	3.2	10.8	12.7	11.7		3.4			
2/28/2018					2.7		20.1	17	36.4
7/10/2018	2.5								
7/11/2018				11.3		3.2	21.4	19.5	38.2
11/6/2018	2.6	12.3	15.2						
11/7/2018				11.8	16.7	3.1	22.4	21.4	38.8
3/12/2019	3.3	12.1	14.5	12.1					
3/13/2019					12.4	3.4		19.9	40.1
3/14/2019							24		
10/15/2019	3.3	9.4	15.6	11.6					
10/16/2019					17.4	3.5			33.2
10/17/2019							22		
10/18/2019								22	
3/2/2020	3		15	8.9					
3/3/2020		8.4			9.4	4.1	22.7		30.9
3/4/2020								19.6	
9/22/2020	5.2		16	10.8		3.2			27.6
9/23/2020					12.6		22.4		
9/24/2020		5.9						22.7	
3/1/2021	3.9								
3/2/2021			14.4		13.1	3.5	22.8		27
3/3/2021				10.3				20.9	
3/4/2021		7.2							
9/8/2021	5.9								
9/9/2021			13.6	8.5	12.9	3.3	21.9		25.4
9/10/2021		8.2							
9/13/2021								18.2	
1/18/2022	5.9								
1/20/2022									
1/21/2022									
1/24/2022							21.5	19.2	
1/25/2022			14.1	8.1	14.3	3.7			23.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		9							
9/7/2022	8.2								
9/13/2022						3.5	21.9		
9/14/2022								19	18.7
9/15/2022		8.2	12.1	8.2	13.7				
9/20/2022									
1/31/2023	7.3								
2/1/2023					12.2	4.5			
2/2/2023		9.9					22.1		
2/6/2023			12.1	6.8				18.8	17.9
2/7/2023									
9/6/2023	7.8								
9/8/2023			11.2		11.7	3.5	20		15.8
9/11/2023		10.1		6.5					
9/13/2023								18.2	
1/30/2024	8.2								
1/31/2024					11.1				
2/1/2024			11.1						14.2
2/2/2024		9.2		6.9					
2/5/2024						3.7	20.4		
2/6/2024								18	
9/4/2024	9.4								
9/5/2024				7.9	11.5		20.5		15.6
9/9/2024			11						
9/10/2024						3.8		18.3	
9/11/2024		11.6							

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		15	25
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		16	
12/8/2016			24
3/28/2017			
3/29/2017		17	
3/30/2017	4.8		24
5/11/2017	4.4		
5/12/2017			
6/15/2017	4.8		
6/16/2017			
7/11/2017	4.6		
7/12/2017		18	23
10/24/2017	4.4		
10/25/2017		20	23
11/15/2017			
2/27/2018	4.1		
2/28/2018		18.6	19.9
7/10/2018			
7/11/2018	3.3	20.4	20.9
11/6/2018	3.7		
11/7/2018		21.5	20.5
3/12/2019	3.1		
3/13/2019		24.8	21.3
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	2.8	24.9	20.1
10/18/2019			
3/2/2020			
3/3/2020	2.3		19.7
3/4/2020		27.8	
9/22/2020		25.8	
9/23/2020	2.1		
9/24/2020			20
3/1/2021			
3/2/2021	2.1	28	
3/3/2021			19.7
3/4/2021			
9/8/2021			
9/9/2021	2.1		20.2
9/10/2021		26.2	
9/13/2021			
1/18/2022			
1/20/2022	2		18.6
1/21/2022		27	
1/24/2022			
1/25/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		26.2	17.6
9/20/2022	2		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	2.1		
2/7/2023		27.9	18.6
9/6/2023			
9/8/2023			
9/11/2023		26.9	17.8
9/13/2023	1.9		
1/30/2024			
1/31/2024			17.8
2/1/2024	1.9	27.2	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			18
9/5/2024		26.2	
9/9/2024	2.1		
9/10/2024			
9/11/2024			

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								9.7	6
8/31/2016							8.6		
9/1/2016					12	18			
9/2/2016	30								
9/7/2016				33					
12/6/2016							8	9.8	6.2
12/8/2016	26			32	12	17			
3/28/2017			29				9.5		6.6
3/29/2017	30							9.9	
3/30/2017		17				16			
3/31/2017				33	9.1				
5/12/2017		17	29						
6/15/2017		16	28						
7/11/2017			28				9	9.7	6.9
7/12/2017		16							
7/13/2017	29			33	5.7	15			
10/24/2017			28					9.9	6.7
10/25/2017	29			32			9.4		
10/26/2017		17			6.6	14			
11/15/2017			27						
2/27/2018			24.6				9.7	9.5	8.2
2/28/2018	23.4			29					
3/1/2018		14.8			10.7				
3/2/2018						12.8			
7/11/2018				29.3					10.5
7/12/2018	26.1	15.2			9.5	11.7			
11/6/2018			24.8				10.2	10.5	8.7
11/7/2018	25.8			28.6	8.6	11.4			
11/8/2018		14.6							
3/12/2019			24.2				10.6	10.7	8.5
3/14/2019	26.3	15.2		24.8	6.6	10.2			
10/15/2019			20.9						
10/16/2019							11.6	10.4	
10/17/2019				25.8	7				10
10/18/2019	23.4	14.4				9.6			
3/2/2020			18.7				10.5		
3/3/2020	21.8							9.6	6.6
3/4/2020		13.9		23.6	4.4	9.1			
9/22/2020			17	22.1			10.5		8
9/23/2020					3.3	8		9.1	
9/24/2020	21.5	13.7							
3/1/2021			15						
3/2/2021							9.8	8.6	8.4
3/3/2021	20.6	14		20.8	2.9	14.2			
9/9/2021		12.3							
9/10/2021	17.3		13.9		2.4	10.9	9.9		9
9/13/2021				17.1				8.2	
1/20/2022	18.1	12		18.2					
1/21/2022					3.1				
1/24/2022			12.5			11.3	9.9		
1/25/2022								9.3	
1/26/2022									9.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				18.7	3.3	8.9			
9/14/2022							11.2		
9/15/2022								8.3	
9/16/2022	18								
9/19/2022			11.2						13.2
9/20/2022		11.6							
2/1/2023				19.3					
2/3/2023			11		2.6	8.2			14.7
2/6/2023	16.9	12.4							
2/7/2023							10	8.7	
3/21/2023									
4/10/2023									
9/11/2023	16.8	12							
9/12/2023					2.4			9.5	
9/13/2023			9.4	18.4		6.5	9.5		
9/14/2023									
1/30/2024				18.1					
1/31/2024	16	12.5							
2/1/2024			8.7				11.6	10.5	
2/5/2024					2.2	6.1			
9/5/2024		11.7		17.8	3.4				
9/6/2024			7.5				12.4		
9/9/2024	16.3							10.2	
9/10/2024						5.8			
9/11/2024									10.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	7.2
4/10/2023	7.4
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	5.9
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	9.8
9/5/2024	
9/6/2024	
9/9/2024	8.5
9/10/2024	
9/11/2024	

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
9/25/2020	0.00094 (J)								
9/28/2020									
12/9/2020				0.0011 (J)		<0.005	<0.005	<0.005	
12/17/2020			<0.005		<0.005				
1/11/2021			<0.005						
1/12/2021		<0.005		<0.005				<0.005	
3/3/2021									
3/4/2021			<0.005	<0.005	<0.005	<0.005	<0.005		
3/5/2021		<0.005						<0.005	
3/8/2021	0.00057 (J)								
3/12/2021									
4/15/2021									<0.005
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	0.0014 (J)			<0.005	<0.005			
9/14/2021				<0.005			<0.005	<0.005	<0.005
1/20/2022									<0.005
1/21/2022	<0.005								
1/24/2022				<0.005		<0.005	<0.005	<0.005	
1/25/2022					<0.005				
1/26/2022		<0.005							
1/27/2022			<0.005						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005		<0.005	
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									<0.005
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					<0.005
2/6/2023						<0.005			
2/7/2023					0.0013 (J)		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			<0.005
9/13/2023				<0.005			<0.005	<0.005	
1/31/2024	<0.005								
2/1/2024						<0.005	<0.005		
2/2/2024		<0.005	<0.005		<0.005				
2/5/2024				<0.005				<0.005	<0.005
9/5/2024	<0.005								
9/9/2024					<0.005	<0.005	<0.005	<0.005	<0.005
9/10/2024		<0.005	<0.005	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			0.00098 (J)
8/13/2020			<0.005
8/17/2020		0.0014 (J)	
9/24/2020			<0.005
9/25/2020			
9/28/2020		<0.005	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00059 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		<0.005	
9/14/2021			
1/20/2022			<0.005
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0014 (J)	
6/6/2022	<0.005		
9/8/2022			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.005	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		<0.005	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		<0.005	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.005		<0.005
2/2/2024			
2/5/2024		<0.005	
9/5/2024			
9/9/2024			<0.005
9/10/2024	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			0.00068 (J)						
9/23/2019				0.0011 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		<0.005	0.0017 (J)				
10/22/2019	0.00064 (J)								
10/24/2019			<0.005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0021 (J)						
8/14/2020					0.005 (J)				
8/17/2020				<0.005		0.0014 (J)			
8/19/2020								0.00057 (J)	
9/22/2020									
9/24/2020			0.0007 (J)						
9/25/2020					0.0051 (J)	0.00085 (J)			
9/28/2020				<0.005				0.00066 (J)	
3/1/2021									
3/4/2021			0.00098 (J)		0.0049 (J)				
3/5/2021						0.0017 (J)			
3/9/2021								<0.005	
3/12/2021									
9/9/2021									
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							<0.005	<0.005	<0.005
9/16/2021					0.003 (J)				
1/18/2022									
1/20/2022	<0.005		<0.005						
1/21/2022					0.0034 (J)				
1/25/2022		<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.005	0.0011 (J)	<0.005
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.005	<0.005	
9/13/2022			<0.005		0.0022 (J)				<0.005
9/14/2022	<0.005								
9/16/2022		<0.005		<0.005		<0.005			
1/31/2023							<0.005	<0.005	
2/1/2023									<0.005
2/2/2023	<0.005								
2/3/2023					0.0026 (J)				
2/6/2023			<0.005						
2/7/2023		<0.005		0.0013 (J)		<0.005			
9/6/2023							<0.005	<0.005	<0.005
9/7/2023	0.0013 (J)								
9/11/2023		<0.005		<0.005					
9/12/2023			<0.005		0.0022 (J)	<0.005			
1/30/2024							<0.005	0.0024 (J)	
1/31/2024									<0.005
2/1/2024	<0.005	<0.005		<0.005	0.0023 (J)				
2/5/2024			<0.005			<0.005			
9/4/2024							<0.005	<0.005	<0.005
9/5/2024									
9/6/2024	<0.005				0.0025 (J)				
9/9/2024		<0.005		<0.005					
9/10/2024						<0.005			
9/11/2024			<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.005	0.0008 (J)
5/11/2017		<0.005	
5/15/2017			0.0006 (J)
6/15/2017		<0.005	0.0006 (J)
7/11/2017			0.0005 (J)
7/12/2017		<0.005	
8/8/2017			0.0005 (J)
10/24/2017		<0.005	0.0005 (J)
2/27/2018			<0.005
3/8/2018		<0.005	
7/10/2018			<0.005
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005	
1/28/2019			
1/30/2019			
8/27/2019			0.00071 (J)
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.034 (O)
10/16/2019		<0.005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.0013 (J)
3/9/2020		<0.005	
8/11/2020			0.0016 (J)
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.005	0.00089 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005		
9/16/2021			
1/18/2022			<0.005
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.0013 (J)		
1/27/2022			
1/28/2022		<0.005	
9/7/2022			<0.005
9/8/2022		<0.005	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	0.0014 (J)		<0.005
2/1/2023		<0.005	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	<0.005	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.005
9/5/2024	<0.005		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.005	<0.005			<0.005			
9/1/2016				<0.005					0.0031 (J)
9/2/2016									
9/6/2016					<0.005		<0.005		
9/7/2016								0.0026 (J)	
12/6/2016		<0.005	<0.005			<0.005			
12/7/2016				<0.005	<0.005		<0.005		<0.01
12/8/2016								0.0025 (J)	
3/28/2017	0.0023 (J)								
3/29/2017		0.0008 (J)	<0.005	<0.005		<0.005			0.0025 (J)
3/30/2017					0.0009 (J)		0.0005 (J)	0.0026 (J)	
5/11/2017									
5/12/2017	0.0004 (J)								
6/15/2017									
6/16/2017	0.0005 (J)								
7/11/2017	<0.005								
7/12/2017		0.0006 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0023 (J)
10/24/2017	<0.005	0.0007 (J)	<0.005						
10/25/2017				<0.005		<0.005	<0.005	0.0024 (J)	0.0024 (J)
11/15/2017					<0.005				
2/27/2018	<0.005	<0.005	<0.005	<0.005		<0.005			
2/28/2018					<0.005		<0.005	<0.01	<0.01
7/10/2018	<0.005								
7/11/2018				<0.005		<0.005	<0.005	0.0024 (J)	0.0022 (J)
11/6/2018	<0.005	<0.005	<0.005						
11/7/2018				<0.005	<0.005	<0.005	<0.01 (J)	<0.01	<0.01 (J)
8/27/2019	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.005		<0.005		0.0031 (J)	
8/28/2019					<0.005		<0.005		0.0028 (J)
8/29/2019									
9/17/2019				<0.005					
10/15/2019	0.0025 (J)	0.00078 (J)	<0.005	<0.005					
10/16/2019					<0.005	<0.005			0.0024 (J)
10/17/2019							0.00058 (J)		
10/18/2019								0.0027 (J)	
3/2/2020	0.00045 (J)		0.0006 (J)	<0.005					
3/3/2020		0.00092 (J)			0.00066 (J)	<0.005	0.00046 (J)		0.0028 (J)
3/4/2020								0.0035 (J)	
8/11/2020	0.0006 (J)	0.00097 (J)	0.00061 (J)	0.00094 (J)		<0.005			0.0024 (J)
8/12/2020					0.00074 (J)				
8/13/2020							0.0048 (J)		
8/14/2020								0.0033 (J)	
9/22/2020	<0.005		0.00058 (J)	<0.005		<0.005			0.003 (J)
9/23/2020					0.00059 (J)		<0.005		
9/24/2020		0.001 (J)						0.0029 (J)	
3/1/2021	<0.005								
3/2/2021			<0.005		<0.005	<0.005	<0.005		0.0024 (J)
3/3/2021				0.00099 (J)				0.0028 (J)	
3/4/2021		0.0009 (J)							
9/8/2021	<0.005								
9/9/2021			<0.005	<0.005	<0.005	<0.005	<0.005		0.003 (J)
9/10/2021		<0.005							
9/13/2021								0.0027 (J)	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.005								
1/20/2022									
1/21/2022									
1/24/2022							<0.005	0.0029 (J)	
1/25/2022			<0.005	<0.005	<0.005	<0.005			0.0029 (J)
1/26/2022		0.0011 (J)							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								0.0023 (J)	0.0024 (J)
9/15/2022		<0.005	<0.005	<0.005	<0.005				
9/20/2022									
1/31/2023	<0.005								
2/1/2023					<0.005	<0.005			
2/2/2023		0.0013 (J)					<0.005		
2/6/2023			<0.005	<0.005				0.0026 (J)	0.0022 (J)
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		<0.005	<0.005	<0.005		0.0021 (J)
9/11/2023		0.0016 (J)		<0.005					
9/13/2023								0.0027 (J)	
1/30/2024	<0.005								
1/31/2024					<0.005				
2/1/2024			<0.005						0.0024 (J)
2/2/2024		<0.005		<0.005					
2/5/2024						<0.005	<0.005		
2/6/2024								0.0029 (J)	
9/4/2024	<0.005								
9/5/2024				<0.005	<0.005		<0.005		0.0024 (J)
9/9/2024			<0.005						
9/10/2024						<0.005		0.0033 (J)	
9/11/2024		0.0038 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0017 (J)	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.005	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.0016 (J)	
3/30/2017	0.0005 (J)		0.0005 (J)
5/11/2017	0.0005 (J)		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		<0.005	0.0006 (J)
10/24/2017	<0.005		
10/25/2017		0.0015 (J)	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		<0.005	<0.005
7/10/2018			
7/11/2018	<0.005	<0.005	<0.005
11/6/2018	<0.005		
11/7/2018		<0.01 (J)	<0.005
8/27/2019	0.0004 (J)		
8/28/2019			
8/29/2019		0.0017 (J)	0.00041 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.00046 (J)	0.0015 (J)	<0.005
10/18/2019			
3/2/2020			
3/3/2020	<0.005		0.00048 (J)
3/4/2020		0.0032 (J)	
8/11/2020	0.00067 (J)		
8/12/2020			
8/13/2020		0.0023 (J)	
8/14/2020			<0.005
9/22/2020		0.0013 (J)	
9/23/2020	<0.005		
9/24/2020			0.00096 (J)
3/1/2021			
3/2/2021	0.00064 (J)	0.0022 (J)	
3/3/2021			0.002 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.005		<0.005
9/10/2021		<0.005	
9/13/2021			

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.005		<0.005
1/21/2022		0.0021 (J)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0014 (J)	<0.005
9/20/2022	<0.005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.005		
2/7/2023		0.0023 (J)	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.0026 (J)	<0.005
9/13/2023	<0.005		
1/30/2024			
1/31/2024			<0.005
2/1/2024	<0.005	0.0021 (J)	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			<0.005
9/5/2024		0.0023 (J)	
9/9/2024	<0.005		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.005	<0.005
8/31/2016							<0.005		
9/1/2016					<0.005	<0.005			
9/2/2016	0.0012 (J)								
9/7/2016				<0.005					
12/6/2016							<0.005	<0.005	<0.005
12/8/2016	<0.005			<0.005	<0.005	<0.005			
3/28/2017			0.0005 (J)				<0.005		0.001 (J)
3/29/2017	<0.005							0.0004 (J)	
3/30/2017		0.0012 (J)				<0.005			
3/31/2017				0.001 (J)	0.0007 (J)				
5/12/2017		0.0004 (J)	<0.005						
6/15/2017		0.0005 (J)	<0.005						
7/11/2017			<0.005				<0.005	<0.005	<0.005
7/12/2017		0.0007 (J)							
7/13/2017	<0.005			0.0008 (J)	<0.005	0.0007 (J)			
10/24/2017			<0.005					<0.005	<0.005
10/25/2017	<0.005			0.0005 (J)			<0.005		
10/26/2017		0.0007 (J)			<0.005	<0.005			
2/27/2018			<0.005				<0.005	<0.005	<0.005
2/28/2018	<0.005			<0.005					
3/1/2018		<0.005			<0.005				
3/2/2018						<0.005			
7/11/2018				<0.005					<0.005
7/12/2018	<0.005	<0.005			<0.005	<0.005			
11/6/2018			<0.005				<0.005	<0.005	<0.005
11/7/2018	<0.005			<0.005	<0.005	<0.005			
11/8/2018		<0.005							
8/27/2019			<0.005				<0.005		0.00048 (J)
8/28/2019				<0.005				<0.005	
8/29/2019	<0.005	<0.005			<0.005	<0.005			
10/15/2019			<0.005						
10/16/2019							<0.005	0.0013 (J)	
10/17/2019				0.00041 (J)	<0.005				0.00051 (J)
10/18/2019	<0.005	0.00041 (J)				<0.005			
3/2/2020			<0.005				0.00045 (J)		
3/3/2020	<0.005							0.00061 (J)	0.0057 (J)
3/4/2020		0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)			
8/11/2020									0.00061 (J)
8/12/2020			<0.005		<0.005		<0.005	0.0028 (J)	
8/13/2020		0.00085 (J)		0.0021 (J)		<0.005			
8/14/2020	<0.005								
9/22/2020			<0.005	0.001 (J)			<0.005		<0.005
9/23/2020					<0.005	<0.005		0.00086 (J)	
9/24/2020	<0.005	0.00084 (J)							
3/1/2021			<0.005						
3/2/2021							<0.005	0.0015 (J)	0.00059 (J)
3/3/2021	<0.005	0.0014 (J)		<0.005	<0.005	<0.005			
9/9/2021		<0.005							
9/10/2021	<0.005		<0.005		<0.005	<0.005	<0.005		<0.005
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.005				
1/24/2022			<0.005			<0.005	<0.005		
1/25/2022								<0.005	
1/26/2022									0.0029 (J)
9/13/2022				<0.005	<0.005	<0.005			
9/14/2022							<0.005		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						<0.005
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		<0.005	<0.005			0.0013 (J)
2/6/2023	<0.005	<0.005							
2/7/2023							<0.005	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					<0.005			<0.005	
9/13/2023			<0.005	<0.005		<0.005	<0.005		
9/14/2023									
1/30/2024				<0.005					
1/31/2024	<0.005	<0.005							
2/1/2024			<0.005				<0.005	<0.005	
2/5/2024					<0.005	<0.005			
9/5/2024		<0.005		<0.005	<0.005				
9/6/2024			<0.005				<0.005		
9/9/2024	<0.005							<0.005	
9/10/2024						<0.005			
9/11/2024									<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.005
9/5/2024	
9/6/2024	
9/9/2024	<0.005
9/10/2024	
9/11/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
7/23/2020	0.086								
8/3/2020	0.087								
8/13/2020									
8/17/2020	0.077								
9/24/2020									
9/25/2020	0.034								
9/28/2020									
12/9/2020				0.17		0.0017 (J)	0.0048 (J)	0.00076 (J)	
12/17/2020			0.014		0.00087 (J)				
1/11/2021			0.015						
1/12/2021		0.0034 (J)		0.19				0.0007 (J)	
3/3/2021									
3/4/2021			0.014	0.19	0.0007 (J)	0.0012 (J)	0.0017 (J)		
3/5/2021		0.0023 (J)						0.00052 (J)	
3/8/2021	0.029								
3/12/2021									
4/15/2021									0.017
9/9/2021									
9/10/2021			0.013						
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)			
9/14/2021				0.1			0.0017 (J)	<0.005	0.0055
1/20/2022									0.0045 (J)
1/21/2022	0.034								
1/24/2022				0.1		0.00088 (J)	0.00061 (J)	0.00041 (J)	
1/25/2022					<0.005				
1/26/2022		0.0028 (J)							
1/27/2022			0.014						
6/6/2022									
9/8/2022	0.028								
9/9/2022									
9/13/2022				0.14					
9/14/2022						0.00061 (J)		<0.005	
9/15/2022			0.012				0.001 (J)		
9/16/2022		0.0035 (J)			<0.005				
9/19/2022									0.0027 (J)
2/2/2023	<0.005		0.011						
2/3/2023		0.0022 (J)		0.17					0.0025 (J)
2/6/2023						0.0007 (J)			
2/7/2023					<0.005		0.001 (J)	0.0004 (J)	
9/6/2023	0.031								
9/7/2023									
9/8/2023		0.0032 (J)							
9/11/2023			0.01		<0.005				
9/12/2023						0.001 (J)			0.0022 (J)
9/13/2023				0.18			0.00045 (J)	<0.005	
1/31/2024	0.065								
2/1/2024						0.00088 (J)	0.12		
2/2/2024		0.0026 (J)	0.0088		<0.005				
2/5/2024				0.16				<0.005	0.0018 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/5/2024	0.031								
9/9/2024					<0.005	0.00087 (J)	0.0037 (J)	0.0004 (J)	0.0017 (J)
9/10/2024		0.0072	0.01	0.1					
9/11/2024									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			0.0003 (J)
10/21/2019			0.00031 (J)
7/23/2020			
8/3/2020			
8/13/2020			<0.005
8/17/2020		0.042	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.042	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.05	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.047	
9/14/2021			
1/20/2022			<0.005
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.052	
6/6/2022	0.006		
9/8/2022			<0.005
9/9/2022			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.051	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	0.007		
2/7/2023		0.059	
9/6/2023			
9/7/2023	0.011		<0.005
9/8/2023		0.057	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.0087		<0.005
2/2/2024			
2/5/2024		0.07	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/5/2024			
9/9/2024			<0.005
9/10/2024	0.0065		
9/11/2024		0.069	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.053								
1/30/2019		<0.01							
8/27/2019									
8/28/2019									
9/11/2019	0.043								
9/12/2019		0.006							
9/18/2019			0.0031 (J)						
9/23/2019				0.0038 (J)					
10/15/2019									
10/16/2019									
10/21/2019		0.0074		0.0089	0.018				
10/22/2019	0.046								
10/24/2019			0.0021 (J)						
11/22/2019						0.018 (J)			
12/19/2019								0.066	
2/17/2020									
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0011 (J)						
8/14/2020					0.021				
8/17/2020				0.0028 (J)		0.0031 (J)			
8/19/2020								0.068	
9/22/2020									
9/24/2020			0.0004 (J)						
9/25/2020					0.0073	0.0015 (J)			
9/28/2020				0.0053				0.064	
3/1/2021									
3/4/2021			0.0017 (J)		0.0099				
3/5/2021						0.022			
3/9/2021								0.061	
3/12/2021	0.046	0.01		0.0021 (J)					
3/15/2021									
9/9/2021									
9/13/2021						0.0018 (J)			
9/14/2021	0.037	0.012	<0.005	0.0015 (J)					
9/15/2021							0.063	0.062	0.003 (J)
9/16/2021					0.011				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/18/2022									
1/20/2022	0.039		<0.005						
1/21/2022					0.011				
1/25/2022		0.013		0.0039 (J)					
1/26/2022							0.071	0.064	0.003 (J)
1/27/2022						0.0038 (J)			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.073	0.057	
9/13/2022			<0.005 (D)		0.012				0.0029 (J)
9/14/2022	0.0465 (D)								
9/16/2022		0.012 (D)		0.00175 (JD)		0.00135 (JD)			
1/31/2023							0.08	0.067	
2/1/2023									0.0033 (J)
2/2/2023	0.027								
2/3/2023					0.012				
2/6/2023			<0.005						
2/7/2023		0.015		0.0028 (J)		0.0031 (J)			
9/6/2023							0.034	0.041	0.0029 (J)
9/7/2023	0.047								
9/11/2023		0.02		0.0024 (J)					
9/12/2023			<0.005		0.015	0.0022 (J)			
1/30/2024							0.06	0.031	
1/31/2024									0.0032 (J)
2/1/2024	0.03	0.019		0.0021 (J)	0.017				
2/5/2024			0.00032 (J)			0.0018 (J)			
9/4/2024							0.061	0.034	0.0032 (J)
9/5/2024									
9/6/2024	0.032				0.013				
9/9/2024		0.032		0.00059 (J)					
9/10/2024						0.008			
9/11/2024			<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.025	0.0034 (J)
5/11/2017		0.0281	
5/15/2017			0.0024 (J)
6/15/2017		0.0322	0.0014 (J)
7/11/2017			0.0007 (J)
7/12/2017		0.0247	
8/8/2017			0.0007 (J)
10/24/2017		0.0267	<0.005
2/27/2018			<0.005
3/8/2018		0.027	
7/10/2018			<0.005
7/12/2018		0.024	
11/6/2018			<0.005
11/7/2018		0.018	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		0.013	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.00064 (J)
10/16/2019		0.009	
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/19/2019			
2/17/2020	<0.005		
3/2/2020			0.00037 (J)
3/9/2020		0.016	
8/11/2020			0.0012 (J)
8/13/2020		0.0051	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.011	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.0078	
3/15/2021	<0.005		
9/9/2021		0.0064	<0.005
9/13/2021			
9/14/2021			
9/15/2021	0.0048 (J)		
9/16/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/18/2022			<0.005
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		0.014	
9/7/2022			<0.005
9/8/2022		0.012	
9/12/2022			
9/13/2022	0.00063 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		0.008	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		0.0086	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	0.0083	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.005
9/5/2024	0.0013 (J)		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		0.0052	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.193	<0.01			<0.005			
9/1/2016				0.0021 (J)					0.0553
9/2/2016									
9/6/2016					<0.005		0.0042 (J)		
9/7/2016								0.0247	
12/6/2016		0.2	0.0006 (J)			<0.005			
12/7/2016				0.0026 (J)	<0.005		0.0028 (J)		0.0561
12/8/2016								0.029	
3/28/2017	0.0033 (J)								
3/29/2017		0.184	<0.01	0.0026 (J)		<0.005			0.0534
3/30/2017					0.0005 (J)		0.0024 (J)	0.0283	
5/11/2017									
5/12/2017	0.0016 (J)								
6/15/2017									
6/16/2017	0.0011 (J)								
7/11/2017	0.0008 (J)								
7/12/2017		0.177	<0.01	0.0033 (J)	0.0004 (J)	<0.005	0.002 (J)	0.023	0.0489
10/24/2017	0.0004 (J)	0.175	<0.01						
10/25/2017				0.0021 (J)		<0.005	0.0019 (J)	0.0259	0.0514
11/15/2017					<0.005				
2/27/2018	<0.005	0.2	<0.01	<0.01		<0.005			
2/28/2018					<0.005		<0.01	0.02	0.0511
7/10/2018	<0.005								
7/11/2018				0.002 (J)		<0.005	0.0018 (J)	0.025	0.051
11/6/2018	<0.005	0.2	<0.01						
11/7/2018				<0.01 (J)	<0.005	<0.005	0.025	<0.01 (J)	0.048
8/27/2019	<0.005	0.13	0.00076 (J)	0.0021 (J)		<0.005		0.031	
8/28/2019					<0.005		0.0015 (J)		0.048
8/29/2019									
9/17/2019				0.0079					
10/15/2019	<0.005	0.17	0.0006 (J)	0.0058					
10/16/2019					<0.005	<0.005			0.046
10/17/2019							0.0018 (J)		
10/18/2019								0.023	
3/2/2020	<0.005		0.00078 (J)	0.029					
3/3/2020		0.18			<0.005	<0.005	0.0018 (J)		0.054
3/4/2020								0.023	
8/11/2020	<0.005	0.11	0.00055 (J)	0.006		<0.005			0.049
8/12/2020					<0.005				
8/13/2020							0.0024 (J)		
8/14/2020								0.026	
9/22/2020	<0.005		0.00098 (J)	0.013		<0.005			0.051
9/23/2020					0.00038 (J)		0.0018 (J)		
9/24/2020		0.086						0.028	
3/1/2021	<0.005								
3/2/2021			0.00065 (J)		<0.005	<0.005	0.0013 (J)		0.051
3/3/2021				0.01				0.016	
3/4/2021		0.071							
9/8/2021	<0.005								
9/9/2021			0.00081 (J)	0.034	<0.005	<0.005	0.0016 (J)		0.055
9/10/2021		0.076							
9/13/2021								0.019	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.005								
1/20/2022									
1/21/2022									
1/24/2022							0.0015 (J)	0.019	
1/25/2022			0.0015 (J)	0.018	<0.005	<0.005			0.054
1/26/2022		0.099							
9/7/2022	<0.005								
9/13/2022						<0.005	0.0016 (J)		
9/14/2022								0.016	0.052
9/15/2022		0.055	0.001 (J)	0.025	<0.005				
9/20/2022									
1/31/2023	<0.005								
2/1/2023					<0.005	<0.005			
2/2/2023		0.11					0.0017 (J)		
2/6/2023			0.0013 (J)	0.016				0.017	0.055
2/7/2023									
9/6/2023	<0.005								
9/8/2023			0.0011 (J)		<0.005	<0.005	0.0018 (J)		0.051
9/11/2023		0.11		0.017					
9/13/2023								0.02	
1/30/2024	<0.005								
1/31/2024					<0.005				
2/1/2024			0.00082 (J)						0.056
2/2/2024		0.064		0.015					
2/5/2024						<0.005	0.0019 (J)		
2/6/2024								0.018	
9/4/2024	<0.005								
9/5/2024				0.022	<0.005		0.002 (J)		0.052
9/9/2024			0.00061 (J)						
9/10/2024						<0.005		0.016	
9/11/2024		0.099							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.497	0.0085 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.614	
12/8/2016			0.0095 (J)
3/28/2017			
3/29/2017		0.443	
3/30/2017	0.0255		0.0076 (J)
5/11/2017	0.0284		
5/12/2017			
6/15/2017	0.0238		
6/16/2017			
7/11/2017	0.0238		
7/12/2017		0.538	0.0092 (J)
10/24/2017	0.0292		
10/25/2017		0.432	0.0092 (J)
11/15/2017			
2/27/2018	0.042		
2/28/2018		0.459	<0.01
7/10/2018			
7/11/2018	0.02	0.47	0.0097 (J)
11/6/2018	0.024		
11/7/2018		0.42	<0.01 (J)
8/27/2019	0.0088		
8/28/2019			
8/29/2019		0.66	0.01
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0084	0.57	0.01
10/18/2019			
3/2/2020			
3/3/2020	0.0073		0.01
3/4/2020		0.84	
8/11/2020	0.0064		
8/12/2020			
8/13/2020		0.73	
8/14/2020			0.0098
9/22/2020		0.47	
9/23/2020	0.0062		
9/24/2020			0.01
3/1/2021			
3/2/2021	0.0055	0.77	
3/3/2021			0.0087
3/4/2021			
9/8/2021			
9/9/2021	0.0048 (J)		0.0096
9/10/2021		0.45	
9/13/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.004 (J)		0.0076
1/21/2022		0.95	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.75	0.0081
9/20/2022	0.0028 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0024 (J)		
2/7/2023		1	0.0088
9/6/2023			
9/8/2023			
9/11/2023		1.4	0.0097
9/13/2023	0.0024 (J)		
1/30/2024			
1/31/2024			0.0097
2/1/2024	0.0027 (J)	1.3	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.0087
9/5/2024		1.9	
9/9/2024	0.0021 (J)		
9/10/2024			
9/11/2024			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0568	0.0896
8/31/2016							0.055		
9/1/2016					0.536	0.539			
9/2/2016	0.0102								
9/7/2016				0.0695					
12/6/2016							0.0432	0.0873	0.122
12/8/2016	0.0079 (J)			0.0652	0.381	0.575			
3/28/2017			0.0018 (J)				0.04		0.124
3/29/2017	0.0097 (J)							0.0902	
3/30/2017		<0.005				0.573			
3/31/2017				0.0524	0.354				
5/12/2017		<0.005	0.0015 (J)						
6/15/2017		0.0003 (J)	0.0015 (J)						
7/11/2017			0.0015 (J)				0.0351 (J)	0.0601	0.136
7/12/2017		<0.005							
7/13/2017	0.0106			0.0481	0.396	0.531			
10/24/2017			0.0017 (J)					0.123	0.151
10/25/2017	0.0094 (J)			0.0435			0.0209		
10/26/2017		<0.005			0.383	0.482			
2/27/2018			<0.01				0.024	0.126	0.163
2/28/2018	<0.01			0.0167					
3/1/2018		<0.005			0.401				
3/2/2018						0.49			
7/11/2018				0.019					0.18
7/12/2018	0.011	<0.005			0.36	0.46			
11/6/2018			<0.01 (J)				0.019	0.077	0.2
11/7/2018	<0.01 (J)			0.02	0.35	0.48			
11/8/2018		<0.01 (J)							
8/27/2019			0.0018 (J)				0.02		0.24
8/28/2019				0.029				0.051	
8/29/2019	0.0094	0.00036 (J)			0.28	0.42			
10/15/2019			0.0018 (J)						
10/16/2019							0.022	0.054	
10/17/2019				0.03	0.26				0.21
10/18/2019	0.0084	<0.005				0.41			
3/2/2020			0.0021 (J)				0.028		
3/3/2020	0.0098							0.044	0.2
3/4/2020		0.00043 (J)		0.014	0.28	0.42			
8/11/2020									0.22
8/12/2020			0.0018 (J)		0.21		0.021	0.053	
8/13/2020		0.00048 (J)		0.025		0.35			
8/14/2020	0.0087								
9/22/2020			0.0014 (J)	0.014			0.02		0.16
9/23/2020					0.17	0.37		0.04	
9/24/2020	0.01	<0.005							
3/1/2021			0.002 (J)						
3/2/2021							0.021	0.033	0.18
3/3/2021	0.0078	0.00039 (J)		0.0087	0.2	0.36			
9/9/2021		0.00049 (J)							
9/10/2021	0.0076		0.0019 (J)		0.23	0.36	0.022		0.21
9/13/2021				0.008				0.028	
1/20/2022	0.0075	0.00058 (J)		0.0056					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.24				
1/24/2022			0.0019 (J)			0.34	0.025		
1/25/2022								0.019	
1/26/2022									0.22
9/13/2022				0.0069	0.21	0.31			
9/14/2022							0.027		
9/15/2022								0.0046 (J)	
9/16/2022	0.0098								
9/19/2022			0.0018 (J)						0.25
9/20/2022		0.00053 (J)							
2/1/2023				0.0068					
2/3/2023			0.0018 (J)		0.21	0.31			0.21
2/6/2023	0.0058	0.00064 (J)							
2/7/2023							0.021	0.0018 (J)	
9/11/2023	0.0074	0.00074 (J)							
9/12/2023					0.18			0.003 (J)	
9/13/2023			0.0018 (J)	0.008		0.31	0.016		
9/14/2023									
1/30/2024				0.0076					
1/31/2024	0.0067	0.0007 (J)							
2/1/2024			0.0016 (J)				0.015	0.0013 (J)	
2/5/2024					0.18	0.27			
9/5/2024		0.00088 (J)		0.01	0.22				
9/6/2024			0.0014 (J)				0.016		
9/9/2024	0.0056							<0.005	
9/10/2024						0.29			
9/11/2024									0.27

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.0052
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.0039 (J)
9/5/2024	
9/6/2024	
9/9/2024	0.0032 (J)
9/10/2024	
9/11/2024	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020	1.4 (U)								
9/24/2020									
9/25/2020	0.799 (U)								
9/28/2020									
12/9/2020				15.2		1.49	1.31 (U)	12.3	
12/17/2020			1.22 (U)		0.952 (U)				
1/11/2021			0.635 (U)						
1/12/2021		1.91		17				9.63	
3/3/2021									
3/4/2021			0.789 (U)	14.5	0.681 (U)	2.14	2.02		
3/5/2021		2.17						9.05	
3/8/2021	0.168 (U)								
3/12/2021									
4/15/2021									2.31
9/9/2021									
9/10/2021			1.74						
9/13/2021	0.774 (U)	1.8			0.625 (U)	0.813 (U)			
9/14/2021				9.6			0.917 (U)	4.39	3.68
1/20/2022									1.21 (U)
1/21/2022	0.769 (U)								
1/24/2022				11.9		1.14 (U)	0.812 (U)	5.68	
1/25/2022					0.454 (U)				
1/26/2022		1.21							
1/27/2022			0.628 (U)						
9/8/2022	0.643 (U)								
9/9/2022									
9/13/2022				9.12					
9/14/2022						0.737 (U)		6.23	
9/15/2022			0.61 (U)				1.36		
9/16/2022		1.64			0.655 (U)				
9/19/2022									2.22
2/2/2023	0.981		0.676 (U)						
2/3/2023		0.426 (U)		14.8					1.81
2/6/2023						0.459 (U)			
2/7/2023					0.642 (U)		0.975	6.24	
9/6/2023	0.326 (U)								
9/7/2023									
9/8/2023		1.57							
9/11/2023			1.25		0.61 (U)				
9/12/2023						0.907 (U)			1.74
9/13/2023				13.9			1.12	8.6	
1/31/2024	0.0563 (U)								
2/1/2024						0.666 (U)	1.11		
2/2/2024		1.15	0.277 (U)		0.203 (U)				
2/5/2024				15.2				1.33	1.93
9/5/2024	0.44 (U)								
9/9/2024					0.538 (U)	0.768 (U)	0.736 (U)	8.3	2.28
9/10/2024		0.673 (U)	1.19 (U)	8.94					
9/11/2024									

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			1.97 (U)
10/21/2019			1.82
8/13/2020			1.63
8/17/2020		1.15 (U)	
9/24/2020			1.28 (U)
9/25/2020			
9/28/2020		1.39	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		1.01 (U)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			1.18 (U)
4/15/2021			
9/9/2021			1.7
9/10/2021			
9/13/2021		0.854 (U)	
9/14/2021			
1/20/2022			1.71
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.831 (U)	
9/8/2022			
9/9/2022			1.96
9/13/2022			
9/14/2022	7.94		
9/15/2022			
9/16/2022		0.752 (U)	
9/19/2022			
2/2/2023			1.6
2/3/2023			
2/6/2023	8.22		
2/7/2023		1.01 (U)	
9/6/2023			
9/7/2023	14.9		2.24
9/8/2023		0.859 (U)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	14.6		2.08
2/2/2024			
2/5/2024		0.988 (U)	
9/5/2024			
9/9/2024			2.14
9/10/2024	10.3		
9/11/2024		0.772 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	2.14 (U)								
1/30/2019		0.975 (U)							
8/27/2019									
8/28/2019									
10/15/2019									
10/16/2019									
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)				
10/22/2019	1.28 (U)								
10/24/2019			1.87						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			2.17						
8/14/2020					0.95 (U)				
8/17/2020				0.662 (U)		2.47			
8/19/2020								1.19 (U)	
9/22/2020									
9/24/2020			0.761 (U)						
9/25/2020					0.0359 (U)	0.925 (U)			
9/28/2020				0.747 (U)				1.54	
3/1/2021									
3/4/2021			2.16		1.15 (U)				
3/5/2021						2.84			
3/9/2021								0.786 (U)	
3/12/2021									
9/9/2021									
9/13/2021						0.771 (U)			
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)					
9/15/2021							1.39	1.84	2.11
9/16/2021					0.442 (U)				
1/18/2022									
1/20/2022	0.846 (U)		0.92						
1/21/2022					0.549 (U)				
1/25/2022		0 (U)		0.33 (U)					
1/26/2022							1.27 (U)	0.758 (U)	1.47 (U)
1/27/2022						1.18			
1/28/2022									
9/7/2022									

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/8/2022									
9/12/2022							2.34	1.09	
9/13/2022			1.11		0.893 (U)				1.11
9/14/2022	1.61								
9/16/2022		0.832 (U)		0.694 (U)		1.25			
1/31/2023							2.04	1.68	
2/1/2023									1.33
2/2/2023	1.01								
2/3/2023					0.279 (U)				
2/6/2023			0.747 (U)						
2/7/2023		0.764 (U)		0.776 (U)		1.77			
9/6/2023							1.41	1.05	1.06 (U)
9/7/2023	0.988 (U)								
9/11/2023		0.736 (U)		0.212 (U)					
9/12/2023			1.16		0.0781 (U)	1.16			
1/30/2024							1.63	1.04 (U)	
1/31/2024									1.4
2/1/2024	0.922 (U)	0.294 (U)		0.485 (U)	0.466 (U)				
2/5/2024			0.952 (U)			1.09 (U)			
9/4/2024							2.83	1.17 (U)	1.96
9/5/2024									
9/6/2024	1.03				0.603 (U)				
9/9/2024		0.0642 (U)		0.62 (U)					
9/10/2024						1.7			
9/11/2024			0.891 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		6.36	0.866 (U)
5/11/2017		3.45	
5/15/2017			0.288 (U)
6/15/2017		4.58	1.01 (U)
7/11/2017			0.254 (U)
7/12/2017		4.37	
8/8/2017			1.48
10/24/2017		4.46	0.472 (U)
2/27/2018			1.22
3/8/2018		2.14	
7/10/2018			0.362 (U)
7/12/2018		4.65	
11/6/2018			0.859 (U)
11/7/2018		3.05	
1/28/2019			
1/30/2019			
8/27/2019			1.97
8/28/2019		2.68	
10/15/2019			0.319 (U)
10/16/2019		1.89	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.419 (U)
3/9/2020		3.51	
8/11/2020			0.812 (U)
8/13/2020		1.04	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		2.27	0.45 (U)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.552 (U)
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		1.63	
9/9/2021		2.72	0.779 (U)
9/13/2021			
9/14/2021			
9/15/2021	2.2		
9/16/2021			
1/18/2022			1.26
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.52 (U)		
1/27/2022			
1/28/2022		2.1	
9/7/2022			0.504 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/8/2022		1.69	
9/12/2022			
9/13/2022	2.03		
9/14/2022			
9/16/2022			
1/31/2023	0.873 (U)		0.416 (U)
2/1/2023		1.92	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	1.22		0.651 (U)
9/7/2023		2.16	
9/11/2023			
9/12/2023			
1/30/2024	0.597 (U)	0.478 (U)	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			0.174 (U)
9/5/2024	2.89		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		1.58	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		1.08	1.09			0.997 (U)			
9/1/2016				1.11					1.07 (U)
9/2/2016									
9/6/2016					1.32		0.731 (U)		
9/7/2016								1.17	
12/6/2016		1.31	0.409 (U)			0.659 (U)			
12/7/2016				2.66	1.76		1.73		0.903 (U)
12/8/2016								1.65	
3/28/2017	0.257 (U)								
3/29/2017		1.24	0.727	0.0726 (U)		0.313 (U)			0.302 (U)
3/30/2017					1.59		0.276 (U)	0.865 (U)	
5/11/2017									
5/12/2017	0.165 (U)								
6/15/2017									
6/16/2017	0.732 (U)								
7/11/2017	0.461 (U)								
7/12/2017		0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)	0.362 (U)	0.283 (U)
10/24/2017	0.724 (U)	0.838 (U)	0.98 (U)						
10/25/2017				0.216 (U)		0.607 (U)	0.454 (U)	0.401 (U)	0.927 (U)
11/15/2017					1.08 (U)				
2/27/2018	0.714 (U)	1.55	1.14	0.83		0.695 (U)			
2/28/2018					0.721 (U)		1.25	1.1 (U)	0.813 (U)
7/10/2018	0.426 (U)	1.65	0.495 (U)		0.746 (U)				
7/11/2018				0.728 (U)		1.04 (U)	2.13	0.64 (U)	0.751 (U)
11/6/2018	0.455 (U)	1.46	1.41						
11/7/2018				0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)	0.795 (U)	1.02
8/27/2019	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)		1.12	
8/28/2019					1.43		1.01 (U)		0.661 (U)
8/29/2019									
10/15/2019	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)					
10/16/2019					1.73	1.04 (U)			1.79
10/17/2019							1.03 (U)		
10/18/2019								0.89 (U)	
3/2/2020	1.3		1.3	1.2 (U)					
3/3/2020		1.69			1.03	1.44	0.293 (U)		0.383 (U)
3/4/2020								0.493 (U)	
8/11/2020	0.965 (U)	1.45	1.02	0.77 (U)		1.17 (U)			0.723 (U)
8/12/2020					1.63				
8/13/2020							3.58		
8/14/2020								0.804 (U)	
9/22/2020	0.216 (U)		0.502 (U)	0.515 (U)		1.2 (U)			0.96 (U)
9/23/2020					0.935 (U)		1.69 (U)		
9/24/2020		1.39						0.369 (U)	
3/1/2021	0.389 (U)								
3/2/2021			0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)		0.775 (U)
3/3/2021				1.85				0.66 (U)	
3/4/2021		1.48							
9/8/2021	0.051 (U)								
9/9/2021			1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)		0.239 (U)
9/10/2021		0.882 (U)							
9/13/2021								0.85 (U)	
1/18/2022	0.729 (U)								

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							0.534 (U)	0.692 (U)	
1/25/2022			0.983 (U)	0.739 (U)	0.254 (U)	0.229 (U)			0.415 (U)
1/26/2022		1.21							
9/7/2022	0.588 (U)								
9/13/2022						0.538 (U)	0.761 (U)		
9/14/2022								0.489 (U)	0.674 (U)
9/15/2022		0.953	1.12	0.52 (U)	1.01				
9/20/2022									
1/31/2023	0.314 (U)								
2/1/2023					0.819 (U)	0.794 (U)			
2/2/2023		1.47					0.991		
2/6/2023			0.442 (U)	1 (U)				0.809 (U)	1.23
2/7/2023									
9/6/2023	0.572 (U)								
9/8/2023			1.2		0.771 (U)	0.75 (U)	0.673 (U)		0.371 (U)
9/11/2023		1.09		1.02					
9/13/2023								1.02 (U)	
1/30/2024	0.305 (U)								
1/31/2024					1.04 (U)				
2/1/2024			0.104 (U)						0.347 (U)
2/2/2024		1.5		0.686 (U)					
2/5/2024						0.651 (U)	0.698 (U)		
2/6/2024								0.234 (U)	
9/4/2024	0.593 (U)								
9/5/2024				0.935 (U)	0.791 (U)		0.715 (U)		0.365 (U)
9/9/2024			0.811 (U)						
9/10/2024						0.719 (U)		0.265 (U)	
9/11/2024		2.6							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		1.48	0.908 (U)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		1.26 (U)	
12/8/2016			1.03 (U)
3/28/2017			
3/29/2017		0.373 (U)	
3/30/2017	0.737 (U)		0.884 (U)
5/11/2017	0.892 (U)		
5/12/2017			
6/15/2017	0.979 (U)		
6/16/2017			
7/11/2017	0.871 (U)		
7/12/2017		0.91 (U)	1.22
10/24/2017	1.19		
10/25/2017		0.853 (U)	1.07 (U)
11/15/2017			
2/27/2018	0.863 (U)		
2/28/2018		0.727 (U)	1.45
7/10/2018			
7/11/2018	0.663 (U)	1.3	1.59
11/6/2018	0.664		
11/7/2018		0.746 (U)	1.16
8/27/2019	1.6		
8/28/2019			
8/29/2019		0.996 (U)	0.582 (U)
10/15/2019			
10/16/2019			
10/17/2019	1.74	2	0.427 (U)
10/18/2019			
3/2/2020			
3/3/2020	1.23		0.567 (U)
3/4/2020		1.67	
8/11/2020	1.37		
8/12/2020			
8/13/2020		1.77	
8/14/2020			0.602 (U)
9/22/2020		1.61 (U)	
9/23/2020	1.96 (U)		
9/24/2020			0.396 (U)
3/1/2021			
3/2/2021	1.54 (U)	1.76	
3/3/2021			0.248 (U)
3/4/2021			
9/8/2021			
9/9/2021	1.22 (U)		0.702 (U)
9/10/2021		0.689 (U)	
9/13/2021			
1/18/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.722 (U)		0.337 (U)
1/21/2022		0.826 (U)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		1.38	0.771 (U)
9/20/2022	0.45 (U)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.5 (U)		
2/7/2023		1.92	0.582 (U)
9/6/2023			
9/8/2023			
9/11/2023		1.45	0.429 (U)
9/13/2023	0.864 (U)		
1/30/2024			
1/31/2024			0.542 (U)
2/1/2024	1.06	1.38	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.426 (U)
9/5/2024		1.55	
9/9/2024	1.41		
9/10/2024			
9/11/2024			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.919 (U)	1.33
8/31/2016							2.49		
9/1/2016					4.47	2.37			
9/2/2016	1.54								
9/7/2016				0.876 (U)					
12/6/2016							0.348 (U)	0.407 (U)	0.828 (U)
12/8/2016	0.505 (U)			0.955	2.88	2.87			
3/28/2017			1.36				0.693 (U)		1.06
3/29/2017	0.715 (U)							0.28 (U)	
3/30/2017		0.297 (U)				1.71			
3/31/2017				0.102 (U)	1.14				
5/12/2017		0.693 (U)	1.15						
6/15/2017		0.435 (U)	0.765 (U)						
7/11/2017			1.13				1.38	0.209 (U)	0.62 (U)
7/12/2017		0.703 (U)							
7/13/2017	1.14			1.08 (U)	2.37	1.78			
10/24/2017			1.24					0.615 (U)	1.21
10/25/2017	1.6			1.46			2.06		
10/26/2017		0.984 (U)			2.88	3.74			
2/27/2018			1.82				1.97	1.05 (U)	1.79
2/28/2018	0.918 (U)			0.882 (U)					
3/1/2018		0.743 (U)			2.21				
3/2/2018						2.26			
7/10/2018			1.37				1.03 (U)	0.363 (U)	
7/11/2018				0.924 (U)					1.81
7/12/2018	0.981 (U)	0.918 (U)			1.73	1.81			
11/6/2018			1.2				1.13	0.577 (U)	1.13
11/7/2018	0.832 (U)			0.654 (U)	1.72	1.94			
11/8/2018		1.47							
8/27/2019			1.79				1.81		1.55
8/28/2019				0.883 (U)				0.815 (U)	
8/29/2019	1.87	2.21			3.05	2.37			
10/15/2019			2.11 (U)						
10/16/2019							1.63	0.999 (U)	
10/17/2019				1.38	2.58				0.702 (U)
10/18/2019	1.1 (U)	1.32				1.42			
3/2/2020			1.99				2.28		
3/3/2020	0.517 (U)							0.481 (U)	1.37
3/4/2020		1.39		0.722 (U)	1.68	1.31			
8/11/2020									0.819 (U)
8/12/2020			1.95		2.56		1.13	0.721 (U)	
8/13/2020		1.48 (U)		1.23 (U)		1.74			
8/14/2020	1.83								
9/22/2020			1.43 (U)	1.03 (U)			1.4 (U)		1.15 (U)
9/23/2020					2.3 (U)	1.51 (U)		0.8 (U)	
9/24/2020	1.02 (U)	1.49							
3/1/2021			1.05 (U)						
3/2/2021							0.971 (U)	0.751 (U)	1.29 (U)
3/3/2021	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41			
9/9/2021		1.81							
9/10/2021	0.616 (U)		1.46		2.32	2.21	1.15		1.28
9/13/2021				1.15 (U)				0.916 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/20/2022	0.298 (U)	0.61 (U)		0.0465 (U)					
1/21/2022					0.785 (U)				
1/24/2022			0.944 (U)			0.668 (U)	0.807 (U)		
1/25/2022								0.356 (U)	
1/26/2022									0.789 (U)
9/13/2022				0.829 (U)	1.97	1.42			
9/14/2022							0.665 (U)		
9/15/2022								0.896	
9/16/2022	1.01								
9/19/2022			1.55						1.38
9/20/2022		1.17 (U)							
2/1/2023				0.599 (U)					
2/3/2023			1.51		1.8	1.4			0.949 (U)
2/6/2023	0.975	1.44							
2/7/2023							1.26	0.737 (U)	
9/11/2023	0.58 (U)	1.28							
9/12/2023					2.19			0.63 (U)	
9/13/2023			0.964 (U)	1.59		1.22 (U)	1.23 (U)		
9/14/2023									
1/30/2024				0.822 (U)					
1/31/2024	0.395 (U)	1.1							
2/1/2024			1.39				1.18	1.18	
2/5/2024					1.39	1.55			
9/5/2024		1.12		0.651 (U)	1.92				
9/6/2024			1.71				0.712 (U)		
9/9/2024	0.745 (U)							1.12	
9/10/2024						1.84			
9/11/2024									1.26 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	2.41
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	2.43
9/5/2024	
9/6/2024	
9/9/2024	1.61
9/10/2024	
9/11/2024	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.1								
9/24/2020									
9/25/2020	<0.1								
9/28/2020									
12/9/2020				0.33		<0.1	<0.1	0.33	
12/17/2020			0.079 (J)		0.052 (J)				
1/11/2021			0.077 (J)						
1/12/2021		0.052 (J)		0.36				0.32	
3/3/2021									
3/4/2021			0.11	0.43	0.055 (J)	<0.1	<0.1		
3/5/2021		0.053 (J)						0.51	
3/8/2021	<0.1								
3/12/2021									
4/15/2021									<0.1
9/9/2021									
9/10/2021			0.083 (J)						
9/13/2021	<0.1	0.051 (J)			0.052 (J)	<0.1			
9/14/2021				0.5			<0.1	0.57	<0.1
1/20/2022									<0.1
1/21/2022	<0.1								
1/24/2022				0.28		<0.1	<0.1	0.38	
1/25/2022					<0.1				
1/26/2022		<0.1							
1/27/2022			0.062 (J)						
6/6/2022									
9/8/2022	0.072 (J)								
9/13/2022				0.35					
9/14/2022						0.053 (J)		0.38	
9/15/2022			0.11				0.061 (J)		
9/16/2022		0.099 (J)			0.08 (J)				
9/19/2022									0.057 (J)
2/2/2023	0.052 (J)		0.091 (J)						
2/3/2023		0.11		0.36					0.052 (J)
2/6/2023						<0.1			
2/7/2023					0.067 (J)		<0.1	0.36	
9/6/2023	<0.1								
9/7/2023									
9/8/2023		<0.1							
9/11/2023			0.1		0.067 (J)				
9/12/2023						<0.1			<0.1
9/13/2023				0.3			<0.1	0.36	
1/31/2024	0.063 (J)								
2/1/2024						<0.1	0.13		
2/2/2024		0.063 (J)	0.081 (J)		0.059 (J)				
2/5/2024				0.29				0.4	0.061 (J)
9/5/2024	0.069 (J)								
9/9/2024					0.076 (J)	0.053 (J)	0.06 (J)	0.44	0.084 (J)
9/10/2024		0.072 (J)	0.06 (J)	0.34					
9/11/2024									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			0.43
10/21/2019			0.23 (J)
8/13/2020			0.11
8/17/2020		0.19	
9/24/2020			0.093 (J)
9/25/2020			
9/28/2020		0.098 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.34	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.11
4/15/2021			
9/9/2021			0.14
9/10/2021			
9/13/2021		0.2	
9/14/2021			
1/20/2022			0.099 (J)
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.21	
6/6/2022	0.2		
9/8/2022			0.13
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.22	
9/19/2022			
2/2/2023			0.16
2/3/2023			
2/6/2023	0.21		
2/7/2023		0.19	
9/6/2023			
9/7/2023	0.22		0.13
9/8/2023		0.24	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.18		0.14
2/2/2024			
2/5/2024		0.34	
9/5/2024			
9/9/2024			0.18
9/10/2024	0.18		
9/11/2024		0.34	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.45								
1/30/2019		0.51							
3/12/2019									
3/13/2019									
8/27/2019									
8/28/2019									
10/15/2019									
10/16/2019									
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)				
10/22/2019	0.2 (J)								
10/24/2019			0.096 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.1						
8/14/2020					0.05 (J)				
8/17/2020				<0.1		<0.1			
8/19/2020								0.32	
9/22/2020									
9/24/2020			<0.1						
9/25/2020					<0.1	<0.1			
9/28/2020				<0.1				0.3	
3/1/2021									
3/4/2021			<0.1		0.071 (J)				
3/5/2021						<0.1			
3/9/2021								0.34	
3/12/2021									
9/9/2021									
9/13/2021						<0.1			
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)					
9/15/2021							0.18	0.34	0.085 (J)
9/16/2021					0.066 (J)				
1/18/2022									
1/20/2022	0.12		<0.1						
1/21/2022					<0.1				
1/25/2022		0.12		<0.1					
1/26/2022							0.3	0.41	0.088 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						<0.1			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.24	0.4	
9/13/2022			0.08 (J)		0.081 (J)				0.14
9/14/2022	0.14								
9/16/2022		0.18		0.079 (J)		0.054 (J)			
1/31/2023							0.2	0.4	
2/1/2023									0.11
2/2/2023	0.13								
2/3/2023					0.12				
2/6/2023			0.069 (J)						
2/7/2023		0.12		0.086 (J)		<0.1			
9/6/2023							0.26	0.26	0.085 (J)
9/7/2023	0.12								
9/11/2023		0.12		0.11					
9/12/2023			0.069 (J)		0.087 (J)	<0.1			
1/30/2024							0.23	0.18	
1/31/2024									0.093 (J)
2/1/2024	0.12	0.1		0.093 (J)	0.073 (J)				
2/5/2024			0.067 (J)			<0.1			
9/4/2024							0.35	0.34	0.14
9/5/2024									
9/6/2024	0.15				0.092 (J)				
9/9/2024		0.11		0.074 (J)					
9/10/2024						0.056 (J)			
9/11/2024			<0.1						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.12 (J)	1.2 (O)
5/11/2017		0.07 (J)	
5/15/2017			0.005 (J)
6/15/2017		0.19 (J)	0.02 (J)
7/11/2017			0.06 (J)
7/12/2017		0.1 (J)	
8/8/2017			0.04 (J)
10/24/2017		0.06 (J)	<0.1
11/15/2017		0.05 (J)	
2/27/2018			<0.1
3/8/2018		<0.3	
7/10/2018			0.082 (J)
7/12/2018		0.071 (J)	
11/6/2018			<0.1
11/7/2018		<0.3	
1/28/2019			
1/30/2019			
3/12/2019			0.039 (J)
3/13/2019		0.13 (J)	
8/27/2019			<0.1
8/28/2019		0.42	
10/15/2019			<0.1
10/16/2019		0.11 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.1
3/9/2020		0.1 (J)	
8/11/2020			<0.1
8/13/2020		0.062 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.099 (J)	<0.1
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.076 (J)	
9/9/2021		0.099 (J)	<0.1
9/13/2021			
9/14/2021			
9/15/2021	0.098 (J)		
9/16/2021			
1/18/2022			<0.1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.13		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		0.08 (J)	
9/7/2022			0.061 (J)
9/8/2022		0.11	
9/12/2022			
9/13/2022	0.18		
9/14/2022			
9/16/2022			
1/31/2023	0.19		0.053 (J)
2/1/2023		0.1	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.1		<0.1
9/7/2023		0.082 (J)	
9/11/2023			
9/12/2023			
1/30/2024	0.13	0.07 (J)	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			0.059 (J)
9/5/2024	0.12		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		0.06 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		1	0.06 (J)			0.06 (J)			
9/1/2016				0.02 (J)					0.75
9/2/2016									
9/6/2016					0.17 (J)		0.11 (J)		
9/7/2016								0.32	
12/6/2016		1.3	0.06 (J)			0.1 (J)			
12/7/2016				0.16 (J)	0.3		0.11 (J)		0.37
12/8/2016								0.31	
3/28/2017	0.06 (J)								
3/29/2017		1.5	0.04 (J)	0.1 (J)		0.02 (J)			0.35
3/30/2017					0.12 (J)		<0.1	0.1 (J)	
5/11/2017									
5/12/2017	<0.1								
6/15/2017									
6/16/2017	0.008 (J)								
7/11/2017	0.007 (J)								
7/12/2017		1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)	0.27 (J)	0.34
10/24/2017	<0.1	2.1	<0.1						
10/25/2017				0.6		<0.1	0.26 (J)	0.49	0.9
11/15/2017	<0.1	1.4			0.44				
2/27/2018	<0.1	2.3	<0.1	0.34		<0.1			
2/28/2018					0.18		<0.1	0.54	1.2
7/10/2018	<0.1								
7/11/2018				<0.1		<0.1	<0.1	0.15 (J)	0.37
11/6/2018	<0.1	2	<0.1						
11/7/2018				<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.3 (J)
3/12/2019	<0.1	1.7	0.052 (J)	0.065 (J)					
3/13/2019					0.13 (J)	0.042 (J)		0.084 (J)	0.22 (J)
3/14/2019							0.057 (J)		
8/27/2019	<0.1	1.4	<0.1	<0.1		<0.1		0.24 (J)	
8/28/2019					0.091 (J)		<0.1		0.2
8/29/2019									
10/15/2019	<0.1	1.4	<0.1	<0.1					
10/16/2019					0.14 (J)	0.052 (J)			0.23 (J)
10/17/2019							0.079 (J)		
10/18/2019								0.086 (J)	
3/2/2020	<0.1		0.064 (J)	0.071 (J)					
3/3/2020		1.5			0.078 (J)	<0.1	<0.1		0.056 (J)
3/4/2020								<0.1	
8/11/2020	<0.1	1.4	<0.1	<0.1		<0.1			0.2
8/12/2020					0.051 (J)				
8/13/2020							<0.1		
8/14/2020								0.069 (J)	
9/22/2020	<0.1		<0.1	<0.1		<0.1			0.084 (J)
9/23/2020					0.058 (J)		<0.1		
9/24/2020		0.97						0.056 (J)	
3/1/2021	<0.1								
3/2/2021			<0.1		0.084 (J)	<0.1	<0.1		0.19
3/3/2021				0.085 (J)				0.085 (J)	
3/4/2021		1.8							
9/8/2021	<0.1								
9/9/2021			<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1		0.18

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/10/2021		2.2							
9/13/2021								0.063 (J)	
1/18/2022	<0.1								
1/20/2022									
1/21/2022									
1/24/2022							<0.1	<0.1	
1/25/2022			<0.1	0.093 (J)	0.063 (J)	<0.1			0.16
1/26/2022		1.8							
9/7/2022	0.056 (J)								
9/13/2022						0.059 (J)	0.065 (J)		
9/14/2022								0.1	0.18
9/15/2022		0.84	0.064 (J)	0.078 (J)	0.095 (J)				
9/20/2022									
1/31/2023	0.05 (J)								
2/1/2023					0.09 (J)	0.067 (J)			
2/2/2023		1.1					0.065 (J)		
2/6/2023			<0.1	0.1				0.096 (J)	0.22
2/7/2023									
9/6/2023	<0.1								
9/8/2023			<0.1		0.055 (J)	<0.1	<0.1		0.17
9/11/2023		1.3		0.13					
9/13/2023								0.1	
1/30/2024	<0.1								
1/31/2024					0.079 (J)				
2/1/2024			<0.1						0.19
2/2/2024		1.2		0.12					
2/5/2024						0.054 (J)	0.065 (J)		
2/6/2024								0.1	
9/4/2024	0.06 (J)								
9/5/2024				0.064 (J)	0.079 (J)		0.061 (J)		0.18
9/9/2024			0.056 (J)						
9/10/2024						0.051 (J)		0.11	
9/11/2024		1.6							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.66	0.07 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.66	
12/8/2016			0.14 (J)
3/28/2017			
3/29/2017		0.34	
3/30/2017	0.06 (J)		<0.1
5/11/2017	0.06 (J)		
5/12/2017			
6/15/2017	0.07 (J)		
6/16/2017			
7/11/2017	0.04 (J)		
7/12/2017		0.41	0.04 (J)
10/24/2017	0.43		
10/25/2017		0.68	0.34
11/15/2017			
2/27/2018	0.28		
2/28/2018		0.76	<0.1
7/10/2018			
7/11/2018	0.6	1.3	<0.1
11/6/2018	<0.1		
11/7/2018		<0.3 (J)	<0.1
3/12/2019	0.052 (J)		
3/13/2019		0.45	0.043 (J)
3/14/2019			
8/27/2019	<0.1		
8/28/2019			
8/29/2019		0.78	0.079 (J)
10/15/2019			
10/16/2019			
10/17/2019	0.042 (J)	0.26 (J)	<0.1
10/18/2019			
3/2/2020			
3/3/2020	<0.1		<0.1
3/4/2020		1.5	
8/11/2020	<0.1		
8/12/2020			
8/13/2020		0.9	
8/14/2020			<0.1
9/22/2020		0.15	
9/23/2020	<0.1		
9/24/2020			<0.1
3/1/2021			
3/2/2021	<0.1	1.4	
3/3/2021			<0.1
3/4/2021			
9/8/2021			
9/9/2021	0.053 (J)		<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/10/2021		0.25	
9/13/2021			
1/18/2022			
1/20/2022	<0.1		<0.1
1/21/2022		1.3	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.69	0.087 (J)
9/20/2022	0.076 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.072 (J)		
2/7/2023		1.1	0.059 (J)
9/6/2023			
9/8/2023			
9/11/2023		1.5	0.054 (J)
9/13/2023	0.083 (J)		
1/30/2024			
1/31/2024			<0.1
2/1/2024	0.067 (J)	1.4	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.065 (J)
9/5/2024		1.8	
9/9/2024	0.093 (J)		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.39	0.78
8/31/2016							1		
9/1/2016					1.8	1.5			
9/2/2016	0.3								
9/7/2016				0.02 (J)					
12/6/2016							0.76	0.47	1.1
12/8/2016	0.12 (J)			0.06 (J)	1.1	1.6			
3/28/2017			0.17 (J)				1.2		1.1
3/29/2017	0.11 (J)							0.51	
3/30/2017		0.12 (J)				0.86			
3/31/2017				<0.1	0.88				
5/12/2017		0.36	<0.1						
6/15/2017		0.21 (J)	0.02 (J)						
7/11/2017			0.02 (J)				0.7	0.2 (J)	1.1
7/12/2017		0.22 (J)							
7/13/2017	0.09 (J)			<0.1	0.84	1.1			
10/24/2017			<0.1					0.82	1.7
10/25/2017	0.25 (J)			<0.1			1.4		
10/26/2017		0.66			1	1.7			
11/15/2017			0.79						
2/27/2018			<0.1				1.3	0.59	1.2
2/28/2018	<0.1			<0.1					
3/1/2018		0.18			1.4				
3/2/2018						1.1			
7/11/2018				<0.1					1.3
7/12/2018	0.13 (J)	0.25 (J)			0.96	0.65			
11/6/2018			<0.1				<0.3 (J)	0.35	1.1
11/7/2018	<0.1			<0.1	0.74	0.63			
11/8/2018		<0.3 (J)							
3/12/2019			0.082 (J)				0.31	0.35	0.97
3/14/2019	0.042 (J)	0.092 (J)		<0.1	1.6	1.4			
8/27/2019			<0.1				0.32		0.68
8/28/2019				<0.1				0.098 (J)	
8/29/2019	0.054 (J)	0.095 (J)			0.52	0.78			
10/15/2019			<0.1						
10/16/2019							0.32	0.14 (J)	
10/17/2019				<0.1	0.46				1.2
10/18/2019	<0.1	0.079 (J)				0.46			
3/2/2020			<0.1				0.33		
3/3/2020	<0.1							<0.1	1.4
3/4/2020		0.075 (J)		<0.1	0.74	0.7			
8/11/2020									1.3
8/12/2020			<0.1		0.22		0.13	0.056 (J)	
8/13/2020		0.1		<0.1		0.47			
8/14/2020	<0.1								
9/22/2020			<0.1	<0.1			0.12		0.99
9/23/2020					0.11	0.32		<0.1	
9/24/2020	<0.1	0.075 (J)							
3/1/2021			<0.1						
3/2/2021							0.15	0.059 (J)	0.93
3/3/2021	<0.1	0.063 (J)		<0.1	0.71	0.67			
9/9/2021		0.084 (J)							

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/10/2021	<0.1		<0.1		0.22	0.47	0.16		2
9/13/2021				<0.1				0.069 (J)	
1/20/2022	<0.1	<0.1		<0.1					
1/21/2022					0.64				
1/24/2022			<0.1			0.59	0.19		
1/25/2022								<0.1	
1/26/2022									1.2
9/13/2022				<0.1	0.47	0.43			
9/14/2022							0.27		
9/15/2022								0.077 (J)	
9/16/2022	0.068 (J)								
9/19/2022			0.061 (J)						0.8
9/20/2022		0.11							
2/1/2023				<0.1					
2/3/2023			0.096 (J)		0.45	0.48			0.9
2/6/2023	0.057 (J)	0.076 (J)							
2/7/2023							0.22	0.13	
3/21/2023									
4/10/2023									
9/11/2023	0.054 (J)	0.1							
9/12/2023					0.51			0.091 (J)	
9/13/2023			<0.1	<0.1		0.51	0.14		
9/14/2023									
1/30/2024				<0.1					
1/31/2024	<0.1	0.074 (J)							
2/1/2024			<0.1				0.12	0.064 (J)	
2/5/2024					0.53	0.43			
9/5/2024		0.089 (J)		<0.1	0.48				
9/6/2024			0.051 (J)				0.23		
9/9/2024	0.067 (J)							0.076 (J)	
9/10/2024						0.43			
9/11/2024									0.81

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	0.099 (J)
4/10/2023	0.13
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.1
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.068 (J)
9/5/2024	
9/6/2024	
9/9/2024	0.09 (J)
9/10/2024	
9/11/2024	

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	8.8E-05 (J)								
9/24/2020									
9/25/2020	0.00021 (J)								
9/28/2020									
12/9/2020				5.1E-05 (J)		4.4E-05 (J)	<0.001	5.8E-05 (J)	
12/17/2020			3.7E-05 (J)		<0.001				
1/11/2021			5E-05 (J)						
1/12/2021		<0.001		<0.001				5.1E-05 (J)	
3/3/2021									
3/4/2021			5.9E-05 (J)	<0.001	<0.001	<0.001	<0.001		
3/5/2021		6.5E-05 (J)						<0.001	
3/8/2021	0.00018 (J)								
3/12/2021									
4/15/2021									0.00019 (J)
9/9/2021									
9/10/2021			<0.001						
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<0.001	<0.001	<0.001
1/20/2022									<0.001
1/21/2022	<0.001								
1/24/2022				<0.001		<0.001	<0.001	<0.001	
1/25/2022					<0.001				
1/26/2022		<0.001							
1/27/2022			<0.001						
6/6/2022									
9/8/2022	<0.001								
9/13/2022				<0.001					
9/14/2022						<0.001		<0.001	
9/15/2022			<0.001				<0.001		
9/16/2022		<0.001			<0.001				
9/19/2022									<0.001
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					<0.001
2/6/2023						<0.001			
2/7/2023					<0.001		<0.001	<0.001	
9/6/2023	<0.001								
9/7/2023									
9/8/2023		<0.001							
9/11/2023			<0.001		<0.001				
9/12/2023						<0.001			<0.001
9/13/2023				<0.001			0.0025	<0.001	
1/31/2024	<0.001								
2/1/2024						<0.001	<0.001		
2/2/2024		<0.001	<0.001		<0.001				
2/5/2024				0.00047 (J)				<0.001	<0.001
9/5/2024	<0.001								
9/9/2024					<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2024		<0.001	<0.001	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00022 (J)	
9/24/2020			<0.001
9/25/2020			
9/28/2020		9.1E-05 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0001 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/15/2021			
9/9/2021			<0.001
9/10/2021			
9/13/2021		<0.001	
9/14/2021			
1/20/2022			<0.001
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.001	
6/6/2022	<0.001		
9/8/2022			<0.001
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.001	
9/19/2022			
2/2/2023			<0.001
2/3/2023			
2/6/2023	<0.001		
2/7/2023		<0.001	
9/6/2023			
9/7/2023	<0.001		<0.001
9/8/2023		<0.001	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.001		<0.001
2/2/2024			
2/5/2024		<0.001	
9/5/2024			
9/9/2024			<0.001
9/10/2024	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.001								
1/30/2019		<0.001							
8/27/2019									
8/28/2019									
9/11/2019	4.7E-05 (J)								
9/12/2019		<0.001							
9/18/2019			0.00032 (J)						
9/23/2019				0.00016 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.001		<0.001	0.00012 (J)				
10/22/2019	7.3E-05 (J)								
10/24/2019			<0.001						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0016 (J)						
8/14/2020					0.00092 (J)				
8/17/2020				5.9E-05 (J)		0.00081 (J)			
8/19/2020								0.00012 (J)	
9/22/2020									
9/24/2020			0.00021 (J)						
9/25/2020					6.5E-05 (J)	0.00035 (J)			
9/28/2020				0.00011 (J)				0.00012 (J)	
3/1/2021									
3/4/2021			0.00029 (J)		0.00017 (J)				
3/5/2021						0.012			
3/9/2021								<0.001	
3/12/2021									
9/9/2021									
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/18/2022									
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						0.0022			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.001	<0.001	
9/13/2022			<0.001		<0.001				<0.001
9/14/2022	<0.001								
9/16/2022		<0.001		<0.001		<0.001			
1/31/2023							<0.001	<0.001	
2/1/2023									<0.001
2/2/2023	<0.001								
2/3/2023					<0.001				
2/6/2023			<0.001						
2/7/2023		<0.001		<0.001		<0.001			
9/6/2023							<0.001	<0.001	<0.001
9/7/2023	<0.001								
9/11/2023		<0.001		<0.001					
9/12/2023			<0.001		<0.001	0.0009 (J)			
1/30/2024							<0.001	<0.001	
1/31/2024									<0.001
2/1/2024	<0.001	<0.001		<0.001	<0.001				
2/5/2024			0.00066 (J)			0.00073 (J)			
9/4/2024							<0.001	<0.001	<0.001
9/5/2024									
9/6/2024	<0.001				<0.001				
9/9/2024		<0.001		<0.001					
9/10/2024						0.0012			
9/11/2024			<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.001	9E-05 (J)
5/11/2017		<0.001	
5/15/2017			0.0001 (J)
6/15/2017		<0.001	0.0002 (J)
7/11/2017			<0.001
7/12/2017		<0.001	
8/8/2017			7E-05 (J)
10/24/2017		<0.001	<0.001
2/27/2018			<0.001
3/8/2018		<0.001	
7/10/2018			<0.001
7/12/2018		<0.001	
11/6/2018			<0.001
11/7/2018		<0.001	
1/28/2019			
1/30/2019			
8/27/2019			7.8E-05 (J)
8/28/2019		<0.001	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.001
10/16/2019		<0.001	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			7.4E-05 (J)
3/9/2020		<0.001	
8/11/2020			0.0003 (J)
8/13/2020		<0.001	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.001	7.8E-05 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.001
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.001	
9/9/2021		<0.001	<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001		
9/16/2021			
1/18/2022			<0.001
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.001		
1/27/2022			
1/28/2022		<0.001	
9/7/2022			<0.001
9/8/2022		<0.001	
9/12/2022			
9/13/2022	<0.001		
9/14/2022			
9/16/2022			
1/31/2023	<0.001		<0.001
2/1/2023		<0.001	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.001		<0.001
9/7/2023		<0.001	
9/11/2023			
9/12/2023			
1/30/2024	<0.001	<0.001	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.001
9/5/2024	0.0014		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.005	<0.001			<0.001			
9/1/2016				<0.001					<0.001
9/2/2016									
9/6/2016					<0.001		<0.001		
9/7/2016								<0.001	
12/6/2016		<0.005	<0.001			<0.001			
12/7/2016				<0.001	<0.001		0.0002 (J)		<0.001
12/8/2016								<0.001	
3/28/2017	<0.001								
3/29/2017		<0.005	<0.001	<0.001		<0.001			<0.001
3/30/2017					0.0002 (J)		0.0001 (J)	0.0001 (J)	
5/11/2017									
5/12/2017	8E-05 (J)								
6/15/2017									
6/16/2017	<0.001								
7/11/2017	<0.001								
7/12/2017		<0.005	<0.001	<0.001	<0.001	<0.001	0.0001 (J)	<0.001	<0.001
10/24/2017	<0.001	<0.005	<0.001						
10/25/2017				<0.001		<0.001	<0.001	<0.001	<0.001
11/15/2017					<0.001				
2/27/2018	<0.001	<0.005	<0.001	<0.001		<0.001			
2/28/2018					<0.001		<0.001	<0.001	<0.001
7/10/2018	<0.001								
7/11/2018				<0.001		<0.001	<0.001	<0.001	<0.001
11/6/2018	<0.001	<0.005	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<0.001	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001		9E-05 (J)	
8/28/2019					<0.001		5.9E-05 (J)		0.00026 (J)
8/29/2019									
9/17/2019				<0.001					
10/15/2019	<0.001	0.00014 (J)	7.6E-05 (J)	<0.001					
10/16/2019					<0.001	<0.001			<0.001
10/17/2019							<0.001		
10/18/2019								7.4E-05 (J)	
3/2/2020	<0.001		0.00015 (J)	<0.001					
3/3/2020		0.00011 (J)			<0.001	<0.001	<0.001		7E-05 (J)
3/4/2020								0.00013 (J)	
8/11/2020	<0.001	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)			5.3E-05 (J)
8/12/2020					<0.001				
8/13/2020							0.0012 (J)		
8/14/2020								0.00017 (J)	
9/22/2020	<0.001		0.0001 (J)	0.00011 (J)		4.4E-05 (J)			0.00016 (J)
9/23/2020					9.8E-05 (J)		8.2E-05 (J)		
9/24/2020		0.00013 (J)						7.9E-05 (J)	
3/1/2021	<0.001								
3/2/2021			<0.001		<0.001	8.3E-05 (J)	<0.001		4.5E-05 (J)
3/3/2021				<0.001				0.00015 (J)	
3/4/2021		9.2E-05 (J)							
9/8/2021	<0.001								
9/9/2021			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/10/2021		<0.005							
9/13/2021								<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.001								
1/20/2022									
1/21/2022									
1/24/2022							<0.001	<0.001	
1/25/2022			<0.001	<0.001	<0.001	<0.001			<0.001
1/26/2022		<0.005							
9/7/2022	<0.001								
9/13/2022						<0.001	<0.001		
9/14/2022								<0.001	<0.001
9/15/2022		<0.005	<0.001	<0.001	<0.001				
9/20/2022									
1/31/2023	<0.001								
2/1/2023					<0.001	<0.001			
2/2/2023		<0.005					<0.001		
2/6/2023			<0.001	<0.001				<0.001	<0.001
2/7/2023									
9/6/2023	<0.001								
9/8/2023			<0.001		<0.001	<0.001	<0.001		<0.001
9/11/2023		<0.005		<0.001					
9/13/2023								<0.001	
1/30/2024	<0.001								
1/31/2024					<0.001				
2/1/2024			<0.001						<0.001
2/2/2024		<0.005		<0.001					
2/5/2024						<0.001	<0.001		
2/6/2024								<0.001	
9/4/2024	<0.001								
9/5/2024				<0.001	<0.001		<0.001		0.0014
9/9/2024			<0.001						
9/10/2024						<0.001		<0.001	
9/11/2024		<0.005							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.01	0.0002 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.01	
12/8/2016			<0.001
3/28/2017			
3/29/2017		<0.01	
3/30/2017	0.0001 (J)		0.0004 (J)
5/11/2017	9E-05 (J)		
5/12/2017			
6/15/2017	0.0001 (J)		
6/16/2017			
7/11/2017	<0.001		
7/12/2017		<0.01	0.0001 (J)
10/24/2017	<0.001		
10/25/2017		<0.01	<0.001
11/15/2017			
2/27/2018	<0.001		
2/28/2018		<0.01	<0.001
7/10/2018			
7/11/2018	<0.001	<0.01	<0.001
11/6/2018	<0.001		
11/7/2018		<0.01	<0.001
8/27/2019	6E-05 (J)		
8/28/2019			
8/29/2019		0.00015 (J)	0.00023 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)
10/18/2019			
3/2/2020			
3/3/2020	<0.001		0.00015 (J)
3/4/2020		0.00068 (J)	
8/11/2020	6.4E-05 (J)		
8/12/2020			
8/13/2020		0.00044 (J)	
8/14/2020			<0.001
9/22/2020		0.00013 (J)	
9/23/2020	9.4E-05 (J)		
9/24/2020			0.00014 (J)
3/1/2021			
3/2/2021	0.00014 (J)	0.00047 (J)	
3/3/2021			<0.001
3/4/2021			
9/8/2021			
9/9/2021	<0.001		<0.001
9/10/2021		<0.01	
9/13/2021			

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.001		<0.001
1/21/2022		<0.01	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.01	<0.001
9/20/2022	<0.001		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.001		
2/7/2023		<0.01	<0.001
9/6/2023			
9/8/2023			
9/11/2023		<0.01	<0.001
9/13/2023	<0.001		
1/30/2024			
1/31/2024			<0.001
2/1/2024	<0.001	<0.01	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.0025
9/5/2024		0.0017 (J)	
9/9/2024	<0.001		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.001	<0.005
8/31/2016							0.0002 (J)		
9/1/2016					0.0005 (J)	0.0008 (J)			
9/2/2016	<0.001								
9/7/2016				0.0002 (J)					
12/6/2016							0.0004 (J)	<0.001	<0.005
12/8/2016	<0.001			0.0002 (J)	<0.001	0.0019 (J)			
3/28/2017			0.0002 (J)				<0.001		<0.005
3/29/2017	<0.001							0.0001 (J)	
3/30/2017		<0.001				0.0035 (J)			
3/31/2017				0.0004 (J)	0.0009 (J)				
5/12/2017		<0.001	<0.001						
6/15/2017		<0.001	<0.001						
7/11/2017			<0.001				<0.001	<0.001	<0.005
7/12/2017		<0.001							
7/13/2017	<0.001			0.0004 (J)	0.0007 (J)	0.002 (J)			
10/24/2017			<0.001					<0.001	<0.005
10/25/2017	<0.001			0.0002 (J)			0.0024 (J)		
10/26/2017		<0.001			0.0009 (J)	0.0022 (J)			
2/27/2018			<0.001				<0.001	<0.001	<0.005
2/28/2018	<0.001			<0.001					
3/1/2018		<0.001			<0.001				
3/2/2018						<0.001			
7/11/2018				0.00052 (J)					<0.005
7/12/2018	<0.001	<0.001			0.001 (J)	0.0014 (J)			
11/6/2018			<0.001				<0.001	<0.001	<0.005
11/7/2018	<0.001			<0.005 (J)	<0.005 (J)	<0.005 (J)			
11/8/2018		<0.001							
8/27/2019			4.9E-05 (J)				5.1E-05 (J)		<0.005
8/28/2019				0.00036 (J)				8.2E-05 (J)	
8/29/2019	<0.001	6.6E-05 (J)			0.0006 (J)	0.001 (J)			
10/15/2019			0.0001 (J)						
10/16/2019							8.5E-05 (J)	0.00029 (J)	
10/17/2019				0.00026 (J)	0.0011 (J)				<0.005
10/18/2019	<0.001	<0.001				0.00095 (J)			
3/2/2020			<0.001				5.1E-05 (J)		
3/3/2020	<0.001							0.00023 (J)	0.00017 (J)
3/4/2020		<0.001		0.0001 (J)	0.00088 (J)	0.0012 (J)			
8/11/2020									<0.005
8/12/2020			<0.001		0.0004 (J)		6.3E-05 (J)	0.0007 (J)	
8/13/2020		<0.001		0.0016 (J)		0.00092 (J)			
8/14/2020	<0.001								
9/22/2020			<0.001	0.00074 (J)			4.8E-05 (J)		0.00015 (J)
9/23/2020					0.00053 (J)	0.001 (J)		0.00011 (J)	
9/24/2020	<0.001	<0.001							
3/1/2021			0.00012 (J)						
3/2/2021							8E-05 (J)	0.00027 (J)	0.00028 (J)
3/3/2021	<0.001	<0.001		0.00024 (J)	0.0007 (J)	0.0011			
9/9/2021		<0.001							
9/10/2021	<0.001		<0.001		<0.001	0.00099 (J)	<0.001		<0.005
9/13/2021				<0.001				<0.001	
1/20/2022	<0.001	<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.001				
1/24/2022			<0.001			0.0011	<0.001		
1/25/2022								<0.001	
1/26/2022									<0.005
9/13/2022				<0.001	<0.001	0.00093 (J)			
9/14/2022							<0.001		
9/15/2022								<0.001	
9/16/2022	<0.001								
9/19/2022			<0.001						<0.005
9/20/2022		<0.001							
2/1/2023				<0.001					
2/3/2023			<0.001		<0.001	<0.001			<0.005
2/6/2023	<0.001	<0.001							
2/7/2023							<0.001	<0.001	
9/11/2023	<0.001	<0.001							
9/12/2023					0.00024 (J)			<0.001	
9/13/2023			<0.001	0.00018 (J)		0.00082 (J)	<0.001		
9/14/2023									
1/30/2024				0.00017 (J)					
1/31/2024	<0.001	<0.001							
2/1/2024			<0.001				<0.001	<0.001	
2/5/2024					0.00029 (J)	0.00077 (J)			
9/5/2024		<0.001		0.00021 (J)	0.00034 (J)				
9/6/2024			<0.001				0.00023 (J)		
9/9/2024	<0.001							<0.001	
9/10/2024						0.00086 (J)			
9/11/2024									<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Lead (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.00015 (J)
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.001
9/5/2024	
9/6/2024	
9/9/2024	<0.001
9/10/2024	
9/11/2024	

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0013 (J)								
9/24/2020									
9/25/2020	0.0027 (J)								
9/28/2020									
12/9/2020				0.039 (J)		0.017 (J)	0.016 (J)	0.021 (J)	
12/17/2020			0.012 (J)		0.0048 (J)				
1/11/2021			0.015 (J)						
1/12/2021		0.012 (J)		0.039				0.021 (J)	
3/3/2021									
3/4/2021			0.014 (J)	0.038	0.0054 (J)	0.015 (J)	0.014 (J)		
3/5/2021		0.015 (J)						0.028 (J)	
3/8/2021	0.0024 (J)								
3/12/2021									
4/15/2021									0.088
9/9/2021									
9/10/2021			0.012 (J)						
9/13/2021	0.0022 (J)	0.011 (J)			0.0056 (J)	0.014 (J)			
9/14/2021				0.036			0.015 (J)	0.029 (J)	0.077
1/20/2022									0.079
1/21/2022	0.0021 (J)								
1/24/2022				0.036		0.015 (J)	0.014 (J)	0.026 (J)	
1/25/2022					0.0055 (J)				
1/26/2022		0.0098 (J)							
1/27/2022			0.013 (J)						
6/6/2022									
9/8/2022	0.0023 (J)								
9/13/2022				0.04					
9/14/2022						0.015 (J)		0.02 (J)	
9/15/2022			0.013 (J)				0.016 (J)		
9/16/2022		0.011 (J)			0.0054 (J)				
9/19/2022									0.076
2/2/2023	<0.03		0.011 (J)						
2/3/2023		0.008 (J)		0.037					0.068
2/6/2023						0.014 (J)			
2/7/2023					0.0053 (J)		0.014 (J)	0.018 (J)	
9/6/2023	0.0023 (J)								
9/7/2023									
9/8/2023		0.015 (J)							
9/11/2023			0.0091 (J)		0.0045 (J)				
9/12/2023						0.012 (J)			0.044
9/13/2023				0.04			0.014 (J)	0.019 (J)	
1/31/2024	<0.03								
2/1/2024						0.014 (J)	0.015 (J)		
2/2/2024		0.015 (J)	0.01 (J)		0.0051 (J)				
2/5/2024				0.037				0.022 (J)	0.057
9/5/2024	0.0019 (J)								
9/9/2024					0.0051 (J)	0.012 (J)	0.013 (J)	0.019 (J)	0.052
9/10/2024		0.015 (J)	0.01 (J)	0.034					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.05
9/11/2019			0.0078 (J)
10/21/2019			0.0078 (J)
8/13/2020			0.0087 (J)
8/17/2020		0.0056 (J)	
9/24/2020			0.0084 (J)
9/25/2020			
9/28/2020		0.005 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0051 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.0087 (J)
4/15/2021			
9/9/2021			0.0094 (J)
9/10/2021			
9/13/2021		0.0055 (J)	
9/14/2021			
1/20/2022			0.0092 (J)
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0061 (J)	
6/6/2022	0.013 (J)		
9/8/2022			0.0085 (J)
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0057 (J)	
9/19/2022			
2/2/2023			0.0082 (J)
2/3/2023			
2/6/2023	0.014 (J)		
2/7/2023		0.0054 (J)	
9/6/2023			
9/7/2023	0.013 (J)		0.0092 (J)
9/8/2023		0.0055 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.013 (J)		0.0094 (J)
2/2/2024			
2/5/2024		0.0061 (J)	
9/5/2024			
9/9/2024			0.0093 (J)
9/10/2024	0.013 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		0.0056 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.05								
1/30/2019		<0.03							
8/27/2019									
8/28/2019									
9/11/2019	0.0064 (J)								
9/12/2019		<0.03							
9/18/2019			0.0047 (J)						
9/23/2019				0.0039 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.03		0.0036 (J)	0.003 (J)				
10/22/2019	0.0062 (J)								
10/24/2019			0.0036 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0018 (J)						
8/14/2020					0.0045 (J)				
8/17/2020				0.0016 (J)		0.006 (J)			
8/19/2020								0.011 (J)	
9/22/2020									
9/24/2020			0.00095 (J)						
9/25/2020					0.0018 (J)	0.0016 (J)			
9/28/2020				0.001 (J)				0.011 (J)	
3/1/2021									
3/4/2021			0.0011 (J)		0.0024 (J)				
3/5/2021						0.029 (J)			
3/9/2021								0.012 (J)	
3/12/2021	0.0066 (J)								
9/9/2021									
9/13/2021						0.0017 (J)			
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)					
9/15/2021							0.012 (J)	0.011 (J)	0.0042 (J)
9/16/2021					0.0021 (J)				
1/18/2022									
1/20/2022	0.0062 (J)		<0.03						
1/21/2022					0.0022 (J)				
1/25/2022		0.00073 (J)		0.00082 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							0.015 (J)	0.013 (J)	0.0047 (J)
1/27/2022						0.0066 (J)			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.015 (J)	0.013 (J)	
9/13/2022			0.0021 (JD)		0.0027 (J)				0.0052 (J)
9/14/2022	0.0072 (JD)								
9/16/2022		<0.03		0.00078 (J)		0.0021 (J)			
1/31/2023							0.014 (J)	0.011 (J)	
2/1/2023									0.0048 (J)
2/2/2023	0.0045 (J)								
2/3/2023					0.0025 (J)				
2/6/2023			<0.03						
2/7/2023		<0.03		0.00073 (J)		0.0071 (J)			
9/6/2023							0.0095 (J)	0.013 (J)	0.0045 (J)
9/7/2023	0.0069 (J)								
9/11/2023		<0.03		<0.03					
9/12/2023			<0.03		0.0021 (J)	0.004 (J)			
1/30/2024							0.014 (J)	0.01 (J)	
1/31/2024									0.0046 (J)
2/1/2024	0.0052 (J)	<0.03		<0.03	0.0023 (J)				
2/5/2024			<0.03			0.0044 (J)			
9/4/2024							0.013 (J)	0.0095 (J)	0.0049 (J)
9/5/2024									
9/6/2024	0.005 (J)				0.0019 (J)				
9/9/2024		<0.03		<0.03					
9/10/2024						0.013 (J)			
9/11/2024			<0.03						

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.0108 (J)	0.0054 (J)
5/11/2017		0.0087 (J)	
5/15/2017			0.002 (J)
6/15/2017		0.0088 (J)	<0.03
7/11/2017			<0.03
7/12/2017		0.0075 (J)	
8/8/2017			<0.03
10/24/2017		0.0103 (J)	<0.03
2/27/2018			<0.03
3/8/2018		0.011 (J)	
7/10/2018			<0.03
7/12/2018		0.0084 (J)	
11/6/2018			<0.03
11/7/2018		<0.05	
1/28/2019			
1/30/2019			
8/27/2019			<0.03
8/28/2019		0.0092 (J)	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.03
10/16/2019		0.0094 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.03
3/9/2020		0.0077 (J)	
8/11/2020			0.0019 (J)
8/13/2020		0.0085 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.0089 (J)	<0.03
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.03
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.0083 (J)	
9/9/2021		0.0091 (J)	<0.03
9/13/2021			
9/14/2021			
9/15/2021	0.0012 (J)		
9/16/2021			
1/18/2022			<0.03
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.0013 (J)		
1/27/2022			
1/28/2022		0.0091 (J)	
9/7/2022			<0.03
9/8/2022		0.0083 (J)	
9/12/2022			
9/13/2022	0.0011 (J)		
9/14/2022			
9/16/2022			
1/31/2023	0.00089 (J)		<0.03
2/1/2023		0.0088 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00097 (J)		<0.03
9/7/2023		0.0085 (J)	
9/11/2023			
9/12/2023			
1/30/2024	<0.03	0.0087 (J)	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.03
9/5/2024	0.0021 (J)		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		0.0078 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0022 (J)	0.0022 (J)			0.0031 (J)			
9/1/2016				<0.03					0.0034 (J)
9/2/2016									
9/6/2016					0.0029 (J)		0.0064 (J)		
9/7/2016								<0.03	
12/6/2016		<0.05	0.0027 (J)			0.0042 (J)			
12/7/2016				<0.03	0.003 (J)		0.0066 (J)		0.0034 (J)
12/8/2016								<0.03	
3/28/2017	0.0025 (J)								
3/29/2017		0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)			0.0031 (J)
3/30/2017					0.0035 (J)		0.0061 (J)	<0.03	
5/11/2017									
5/12/2017	0.0016 (J)								
6/15/2017									
6/16/2017	0.0016 (J)								
7/11/2017	<0.03								
7/12/2017		0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)	<0.03	0.0032 (J)
10/24/2017	<0.03	0.0022 (J)	0.0024 (J)						
10/25/2017				<0.03		0.0032 (J)	0.0061 (J)	<0.03	0.0031 (J)
11/15/2017					0.0028 (J)				
2/27/2018	0.0013 (J)	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)			
2/28/2018					<0.05		0.0062 (J)	<0.03	0.0031 (J)
7/10/2018	0.0012 (J)								
7/11/2018				<0.03		0.0034 (J)	0.0058 (J)	<0.03	0.0034 (J)
11/6/2018	<0.03	<0.05	<0.05						
11/7/2018				<0.03	<0.05	<0.05	<0.05 (O)	<0.03	<0.05
8/27/2019	0.0014 (J)	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)		0.00089 (J)	
8/28/2019					0.0033 (J)		0.0063 (J)		0.0032 (J)
8/29/2019									
9/17/2019				0.0011 (J)					
10/15/2019	0.0012 (J)	0.0051 (J)	0.0019 (J)	0.00091 (J)					
10/16/2019					0.0029 (J)	0.0032 (J)			0.0026 (J)
10/17/2019							0.0064 (J)		
10/18/2019								0.00096 (J)	
3/2/2020	0.0011 (J)		0.0023 (J)	<0.03					
3/3/2020		0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)		0.0034 (J)
3/4/2020								0.0011 (J)	
8/11/2020	0.0015 (J)	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)			0.0031 (J)
8/12/2020					0.0034 (J)				
8/13/2020							0.0089 (J)		
8/14/2020								0.0015 (J)	
9/22/2020	0.0012 (J)		0.0019 (J)	<0.03		0.0038 (J)			0.0034 (J)
9/23/2020					0.0033 (J)		0.006 (J)		
9/24/2020		0.0049 (J)						0.00096 (J)	
3/1/2021	0.0012 (J)								
3/2/2021			0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)		0.003 (J)
3/3/2021				<0.03				0.0011 (J)	
3/4/2021		0.0042 (J)							
9/8/2021	0.0013 (J)								
9/9/2021			0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)		0.0035 (J)
9/10/2021		0.0051 (J)							
9/13/2021								<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	0.0013 (J)								
1/20/2022									
1/21/2022									
1/24/2022							0.0051 (J)	<0.03	
1/25/2022			0.0021 (J)	<0.03	0.0037 (J)	0.0043 (J)			0.0031 (J)
1/26/2022		0.0059 (J)							
9/7/2022	0.0012 (J)								
9/13/2022						0.0043 (J)	0.0057 (J)		
9/14/2022								<0.03	0.0032 (J)
9/15/2022		0.0053 (J)	0.0024 (J)	0.00088 (J)	0.004 (J)				
9/20/2022									
1/31/2023	0.0014 (J)								
2/1/2023					0.0031 (J)	0.018 (J)			
2/2/2023		0.0049 (J)					0.005 (J)		
2/6/2023			0.0018 (J)	<0.03				<0.03	0.0026 (J)
2/7/2023									
9/6/2023	0.0013 (J)								
9/8/2023			0.0017 (J)		0.0031 (J)	0.0041 (J)	0.0051 (J)		0.0024 (J)
9/11/2023		0.0043 (J)		<0.03					
9/13/2023								<0.03	
1/30/2024	<0.03								
1/31/2024					0.0035 (J)				
2/1/2024			0.0016 (J)						0.0024 (J)
2/2/2024		0.0042 (J)		<0.03					
2/5/2024						0.0046 (J)	0.0059 (J)		
2/6/2024								<0.03	
9/4/2024	<0.03								
9/5/2024				<0.03	0.003 (J)		0.0052 (J)		0.0025 (J)
9/9/2024			0.0021 (J)						
9/10/2024						0.0044 (J)		<0.03	
9/11/2024		0.0054 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0021 (J)	0.0057 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.005 (J)	
12/8/2016			0.0054 (J)
3/28/2017			
3/29/2017		0.0021 (J)	
3/30/2017	0.0807		0.0065 (J)
5/11/2017	0.085		
5/12/2017			
6/15/2017	0.0781		
6/16/2017			
7/11/2017	0.0731		
7/12/2017		0.0019 (J)	0.0057 (J)
10/24/2017	0.0995		
10/25/2017		0.0022 (J)	0.006 (J)
11/15/2017			
2/27/2018	0.0875		
2/28/2018		0.0019 (J)	0.0061 (J)
7/10/2018			
7/11/2018	0.033 (J)	0.0022 (J)	0.0057 (J)
11/6/2018	<0.05		
11/7/2018		<0.05	<0.05
8/27/2019	0.032		
8/28/2019			
8/29/2019		0.0093 (J)	0.0061 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.029 (J)	0.0075 (J)	0.0063 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.026 (J)		0.0065 (J)
3/4/2020		0.019 (J)	
8/11/2020	0.028 (J)		
8/12/2020			
8/13/2020		0.012 (J)	
8/14/2020			0.0058 (J)
9/22/2020		0.0026 (J)	
9/23/2020	0.022 (J)		
9/24/2020			0.0062 (J)
3/1/2021			
3/2/2021	0.023 (J)	0.011 (J)	
3/3/2021			0.0054 (J)
3/4/2021			
9/8/2021			
9/9/2021	0.024 (J)		0.006 (J)
9/10/2021		0.0023 (J)	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.024 (J)		0.0058 (J)
1/21/2022		0.012 (J)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0096 (J)	0.0069 (J)
9/20/2022	0.021 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.017 (J)		
2/7/2023		0.013 (J)	0.0056 (J)
9/6/2023			
9/8/2023			
9/11/2023		0.011 (J)	0.0055 (J)
9/13/2023	0.017 (J)		
1/30/2024			
1/31/2024			0.0065 (J)
2/1/2024	0.017 (J)	0.012 (J)	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			0.0057 (J)
9/5/2024		0.015 (J)	
9/9/2024	0.016 (J)		
9/10/2024			
9/11/2024			

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.005 (J)	0.0212 (J)
8/31/2016							0.0026 (J)		
9/1/2016					0.0854	0.125			
9/2/2016	0.0046 (J)								
9/7/2016				0.012 (J)					
12/6/2016							0.0046 (J)	0.0066 (J)	0.0242 (J)
12/8/2016	0.0047 (J)			0.0118 (J)	0.0667	0.122			
3/28/2017			0.0031 (J)				0.0028 (J)		0.0249 (J)
3/29/2017	0.0043 (J)							0.0059 (J)	
3/30/2017		0.0162 (J)				0.144			
3/31/2017				0.0119 (J)	0.0767				
5/12/2017		0.0036 (J)	0.0027 (J)						
6/15/2017		0.0063 (J)	0.0025 (J)						
7/11/2017			0.0022 (J)				0.0031 (J)	0.0045 (J)	0.022 (J)
7/12/2017		0.0068 (J)							
7/13/2017	0.0044 (J)			0.0116 (J)	0.0743	0.143			
10/24/2017			0.0024 (J)					0.0072 (J)	0.0281 (J)
10/25/2017	0.0042 (J)			0.0122 (J)			0.0055 (J)		
10/26/2017		0.0049 (J)			0.071	0.115			
2/27/2018			0.0027 (J)				0.0066 (J)	0.0075 (J)	0.031 (J)
2/28/2018	0.0043 (J)			0.0122 (J)					
3/1/2018		0.0759			0.0772				
3/2/2018						0.129			
7/11/2018				0.01 (J)					0.028 (J)
7/12/2018	0.0036 (J)	0.0047 (J)			0.073	0.12			
11/6/2018			<0.05				<0.05	<0.05	<0.05
11/7/2018	<0.05			<0.05	0.082	0.12			
11/8/2018		<0.05							
8/27/2019			0.0033 (J)				0.008 (J)		0.031
8/28/2019				0.01 (J)				0.0048 (J)	
8/29/2019	0.0035 (J)	0.0017 (J)			0.056	0.11			
10/15/2019			0.0029 (J)						
10/16/2019							0.006 (J)	0.0045 (J)	
10/17/2019				0.011 (J)	0.066				0.029 (J)
10/18/2019	0.0041 (J)	0.0039 (J)				0.11			
3/2/2020			0.0035 (J)				0.0079 (J)		
3/3/2020	0.0046 (J)							0.0052 (J)	0.028 (J)
3/4/2020		0.004 (J)		0.0091 (J)	0.063	0.12			
8/11/2020									0.032
8/12/2020			0.0031 (J)		0.054		0.0067 (J)	0.0058 (J)	
8/13/2020		0.0052 (J)		0.011 (J)		0.098			
8/14/2020	0.0039 (J)								
9/22/2020			0.0026 (J)	0.0099 (J)			0.0065 (J)		0.025 (J)
9/23/2020					0.046	0.1		0.0045 (J)	
9/24/2020	0.0037 (J)	0.0045 (J)							
3/1/2021			0.0035 (J)						
3/2/2021							0.0064 (J)	0.0046 (J)	0.028 (J)
3/3/2021	0.0038 (J)	0.014 (J)		0.0079 (J)	0.049	0.096			
9/9/2021		0.0081 (J)							
9/10/2021	0.0039 (J)		0.0035 (J)		0.053	0.095	0.0071 (J)		0.027 (J)
9/13/2021				0.015 (J)				0.0034 (J)	
1/20/2022	0.0032 (J)	0.0029 (J)		0.0069 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.055				
1/24/2022			0.0038 (J)			0.11	0.0068 (J)		
1/25/2022								0.0032 (J)	
1/26/2022									0.029 (J)
9/13/2022				0.0091 (J)	0.05	0.099			
9/14/2022							0.0081 (J)		
9/15/2022								0.0039 (J)	
9/16/2022	0.0033 (J)								
9/19/2022			0.0037 (J)						0.023 (J)
9/20/2022		0.0051 (J)							
2/1/2023				0.0068 (J)					
2/3/2023			0.0036 (J)		0.048	0.089			0.025 (J)
2/6/2023	0.0034 (J)	0.0022 (J)							
2/7/2023							0.0072 (J)	0.0036 (J)	
3/16/2023									
3/21/2023									
4/10/2023									
9/11/2023	0.0031 (J)	0.0036 (J)							
9/12/2023					0.034			0.0045 (J)	
9/13/2023			0.004 (J)	0.0087 (J)		0.096	0.0081 (J)		
9/14/2023									
1/30/2024				0.0078 (J)					
1/31/2024	0.0037 (J)	0.0024 (J)							
2/1/2024			0.0038 (J)				0.0075 (J)	0.0031 (J)	
2/5/2024					0.046	0.083			
9/5/2024		0.0048 (J)		0.0099 (J)	0.044				
9/6/2024			0.0035 (J)				0.0072 (J)		
9/9/2024	0.0035 (J)							0.0036 (J)	
9/10/2024						0.09			
9/11/2024									0.022 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/16/2023	0.074
3/21/2023	0.078
4/10/2023	0.034
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.031
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.028 (J)
9/5/2024	
9/6/2024	
9/9/2024	0.029 (J)
9/10/2024	
9/11/2024	

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.00011 (J)								
9/24/2020									
9/25/2020	<0.0002								
9/28/2020									
12/9/2020				7.9E-05 (J)		0.00016 (J)	0.00014 (J)	9.4E-05 (J)	
12/17/2020			<0.0002		<0.0002				
1/11/2021			<0.0002						
1/12/2021		<0.0002		<0.0002				<0.0002	
3/3/2021									
3/4/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2021		0.00014 (J)						<0.0002	
3/12/2021									
4/15/2021									<0.0002
9/9/2021									
9/10/2021			<0.0002						
9/13/2021	<0.0002	<0.0002			<0.0002	<0.0002			
9/14/2021				<0.0002			<0.0002	<0.0002	<0.0002
1/20/2022									<0.0002
1/21/2022	<0.0002								
1/24/2022				<0.0002		<0.0002	<0.0002	<0.0002	
1/25/2022					<0.0002				
1/26/2022		<0.0002							
1/27/2022			<0.0002						
6/6/2022									
9/8/2022	<0.0002								
9/13/2022				<0.0002					
9/14/2022						<0.0002		<0.0002	
9/15/2022			<0.0002				<0.0002		
9/16/2022		<0.0002			<0.0002				
9/19/2022									<0.0002
2/2/2023	<0.0002		<0.0002						
2/3/2023		0.00029		<0.0002					<0.0002
2/6/2023						<0.0002			
2/7/2023					<0.0002		<0.0002	<0.0002	
9/6/2023	<0.0002								
9/7/2023									
9/8/2023		<0.0002							
9/11/2023			<0.0002		<0.0002				
9/12/2023						<0.0002			<0.0002
9/13/2023				<0.0002			<0.0002	<0.0002	
1/31/2024	<0.0002								
2/1/2024						<0.0002	<0.0002		
2/2/2024		<0.0002	<0.0002		<0.0002				
2/5/2024				<0.0002				<0.0002	<0.0002
9/5/2024	<0.0002								
9/9/2024					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2024		<0.0002	<0.0002	<0.0002					
9/11/2024									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.0002
9/11/2019			<0.0002
10/21/2019			<0.0002
8/13/2020			<0.0002
8/17/2020		0.00016 (J)	
9/24/2020			<0.0002
9/25/2020			
9/28/2020		<0.0002	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.0002	
3/4/2021			
3/5/2021			
3/12/2021			<0.0002
4/15/2021			
9/9/2021			<0.0002
9/10/2021			
9/13/2021		<0.0002	
9/14/2021			
1/20/2022			<0.0002
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.0002	
6/6/2022	<0.0002		
9/8/2022			<0.0002
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.0002	
9/19/2022			
2/2/2023			<0.0002
2/3/2023			
2/6/2023	<0.0002		
2/7/2023		0.00034	
9/6/2023			
9/7/2023	<0.0002		<0.0002
9/8/2023		<0.0002	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.0002		<0.0002
2/2/2024			
2/5/2024		0.00029	
9/5/2024			
9/9/2024			<0.0002
9/10/2024	<0.0002		
9/11/2024		<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.0002								
1/30/2019		<0.0002							
8/27/2019									
8/28/2019									
9/11/2019	<0.0002								
9/12/2019		<0.0002							
9/18/2019			<0.0002						
9/23/2019				<0.0002					
10/15/2019									
10/16/2019									
10/21/2019		<0.0002		<0.0002	<0.0002				
10/22/2019	<0.0002								
10/24/2019			<0.0002						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.0002						
8/14/2020					<0.0002				
8/17/2020				0.00011 (J)		0.00011 (J)			
8/19/2020								0.00026	
9/22/2020									
9/24/2020			<0.0002						
9/25/2020					<0.0002	<0.0002			
9/28/2020				<0.0002				0.00024 (J)	
3/1/2021									
3/4/2021			<0.0002		<0.0002				
3/5/2021						0.0001 (J)			
3/9/2021								0.00015 (J)	
3/12/2021									
9/9/2021									
9/13/2021						<0.0002			
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002					
9/15/2021							0.00017 (J)	9.8E-05 (J)	<0.0002
9/16/2021					<0.0002				
1/18/2022									
1/20/2022	<0.0002		<0.0002						
1/21/2022					<0.0002				
1/25/2022		<0.0002		<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.0002	<0.0002	<0.0002
1/27/2022						<0.0002			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.00015 (J)	0.00016 (J)	
9/13/2022			<0.0002		<0.0002				<0.0002
9/14/2022	<0.0002								
9/16/2022		<0.0002		<0.0002		<0.0002			
1/31/2023							0.00017 (J)	<0.0002	
2/1/2023									<0.0002
2/2/2023	<0.0002								
2/3/2023					<0.0002				
2/6/2023			<0.0002						
2/7/2023		0.00029		<0.0002		<0.0002			
9/6/2023							<0.0002	<0.0002	<0.0002
9/7/2023	<0.0002								
9/11/2023		<0.0002		<0.0002					
9/12/2023			<0.0002		<0.0002	<0.0002			
1/30/2024							0.00015 (J)	0.00013 (J)	
1/31/2024									<0.0002
2/1/2024	<0.0002	<0.0002		<0.0002	<0.0002				
2/5/2024			<0.0002			<0.0002			
9/4/2024							<0.0002	<0.0002	<0.0002
9/5/2024									
9/6/2024	<0.0002				<0.0002				
9/9/2024		<0.0002		<0.0002					
9/10/2024						<0.0002			
9/11/2024			<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.0002	<0.0002
5/11/2017		<0.0002	
5/15/2017			<0.0002
6/15/2017		8E-05 (J)	7E-05 (J)
7/11/2017			<0.0002
7/12/2017		<0.0002	
8/8/2017			<0.0002
10/24/2017		<0.0002	<0.0002
2/27/2018			<0.0002
3/8/2018		<0.0002	
7/10/2018			5.5E-05 (J)
7/12/2018		<0.0002	
11/6/2018			<0.0002
11/7/2018		<0.0002	
1/28/2019			
1/30/2019			
8/27/2019			<0.0002
8/28/2019		<0.0002	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.0002
10/16/2019		<0.0002	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.0002
3/9/2020		<0.0002	
8/11/2020			<0.0002
8/13/2020		<0.0002	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0002	<0.0002
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.0002
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0002	
9/9/2021		<0.0002	<0.0002
9/13/2021			
9/14/2021			
9/15/2021	<0.0002		
9/16/2021			
1/18/2022			<0.0002
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.0002		
1/27/2022			
1/28/2022		<0.0002	
9/7/2022			<0.0002
9/8/2022		<0.0002	
9/12/2022			
9/13/2022	<0.0002		
9/14/2022			
9/16/2022			
1/31/2023	<0.0002		<0.0002
2/1/2023		<0.0002	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.0002		<0.0002
9/7/2023		<0.0002	
9/11/2023			
9/12/2023			
1/30/2024	<0.0002	<0.0002	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.0002
9/5/2024	<0.0002		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		7E-05 (J)	5E-05 (J)			5E-05 (J)			
9/1/2016				9E-05 (J)					4E-05 (J)
9/2/2016									
9/6/2016					<0.0002		<0.0002		
9/7/2016								6E-05 (J)	
12/6/2016		9E-05 (J)	8E-05 (J)			8E-05 (J)			
12/7/2016				<0.0002	9E-05 (J)		<0.0002		5E-05 (J)
12/8/2016								<0.0002	
3/28/2017	<0.0002								
3/29/2017		8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)			9E-05 (J)
3/30/2017					7E-05 (J)		6E-05 (J)	0.00012 (J)	
5/11/2017									
5/12/2017	6E-05 (J)								
6/15/2017									
6/16/2017	7E-05 (J)								
7/11/2017	<0.0002								
7/12/2017		<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002	5E-05 (J)	<0.0002
10/24/2017	<0.0002	<0.0002	<0.0002						
10/25/2017				6E-05 (J)		<0.0002	<0.0002	5E-05 (J)	<0.0002
11/15/2017					<0.0002				
2/27/2018	<0.0002	<0.0002	<0.0002	6E-05 (J)		<0.0002			
2/28/2018					<0.0002		<0.0002	<0.0002	<0.0002
7/10/2018	0.0001 (J)								
7/11/2018				3.6E-05 (J)		<0.0002	<0.0002	<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002	<0.0002						
11/7/2018				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		0.00016 (J)	
8/28/2019					<0.0002		<0.0002		<0.0002
8/29/2019									
9/17/2019				<0.0002					
10/15/2019	<0.0002	<0.0002	<0.0002	<0.0002					
10/16/2019					<0.0002	<0.0002			<0.0002
10/17/2019							<0.0002		
10/18/2019								<0.0002	
3/2/2020	<0.0002		<0.0002	<0.0002					
3/3/2020		<0.0002			<0.0002	<0.0002	<0.0002		<0.0002
3/4/2020								<0.0002	
8/11/2020	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002			<0.0002
8/12/2020					<0.0002				
8/13/2020							<0.0002		
8/14/2020								9.8E-05 (J)	
9/22/2020	<0.0002		<0.0002	<0.0002		<0.0002			<0.0002
9/23/2020					<0.0002		<0.0002		
9/24/2020		8.1E-05 (J)						8.2E-05 (J)	
3/1/2021	9E-05 (J)								
3/2/2021			<0.0002		<0.0002	<0.0002	<0.0002		<0.0002
3/3/2021				<0.0002				<0.0002	
3/4/2021		<0.0002							
9/8/2021	9.6E-05 (J)								
9/9/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/10/2021		<0.0002							
9/13/2021								8.6E-05 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	0.00015 (J)								
1/20/2022									
1/21/2022									
1/24/2022							<0.0002	<0.0002	
1/25/2022			<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
1/26/2022		<0.0002							
9/7/2022	0.00013 (J)								
9/13/2022						<0.0002	<0.0002		
9/14/2022								<0.0002	<0.0002
9/15/2022		<0.0002	<0.0002	<0.0002	<0.0002				
9/20/2022									
1/31/2023	<0.0002								
2/1/2023					<0.0002	<0.0002			
2/2/2023		<0.0002					<0.0002		
2/6/2023			<0.0002	<0.0002				0.00014 (J)	0.00013 (J)
2/7/2023									
9/6/2023	<0.0002								
9/8/2023			0.00048		<0.0002	<0.0002	<0.0002		<0.0002
9/11/2023		0.0021		<0.0002					
9/13/2023								<0.0002	
1/30/2024	<0.0002								
1/31/2024					<0.0002				
2/1/2024			<0.0002						<0.0002
2/2/2024		<0.0002		<0.0002					
2/5/2024						<0.0002	<0.0002		
2/6/2024								<0.0002	
9/4/2024	<0.0002								
9/5/2024				<0.0002	<0.0002		<0.0002		<0.0002
9/9/2024			<0.0002						
9/10/2024						<0.0002		<0.0002	
9/11/2024		<0.0002							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.0002	6E-05 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		8E-05 (J)	
12/8/2016			<0.0002
3/28/2017			
3/29/2017		8E-05 (J)	
3/30/2017	7E-05 (J)		8E-05 (J)
5/11/2017	8.3E-05 (J)		
5/12/2017			
6/15/2017	8E-05 (J)		
6/16/2017			
7/11/2017	<0.0002		
7/12/2017		<0.0002	6E-05 (J)
10/24/2017	<0.0002		
10/25/2017		<0.0002	5E-05 (J)
11/15/2017			
2/27/2018	<0.0002		
2/28/2018		<0.0002	<0.0002
7/10/2018			
7/11/2018	<0.0002	<0.0002	<0.0002
11/6/2018	0.00064		
11/7/2018		<0.0002	<0.0002
8/27/2019	<0.0002		
8/28/2019			
8/29/2019		<0.0002	<0.0002
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.0002	<0.0002	<0.0002
10/18/2019			
3/2/2020			
3/3/2020	<0.0002		<0.0002
3/4/2020		<0.0002	
8/11/2020	<0.0002		
8/12/2020			
8/13/2020		<0.0002	
8/14/2020			<0.0002
9/22/2020		<0.0002	
9/23/2020	<0.0002		
9/24/2020			0.00012 (J)
3/1/2021			
3/2/2021	<0.0002	9E-05 (J)	
3/3/2021			<0.0002
3/4/2021			
9/8/2021			
9/9/2021	<0.0002		<0.0002
9/10/2021		<0.0002	
9/13/2021			

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.0002		<0.0002
1/21/2022		<0.0002	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.0002	<0.0002
9/20/2022	<0.0002		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0002		
2/7/2023		<0.0002	<0.0002
9/6/2023			
9/8/2023			
9/11/2023		<0.0002	<0.0002
9/13/2023	<0.0002		
1/30/2024			
1/31/2024			<0.0002
2/1/2024	<0.0002	<0.0002	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			<0.0002
9/5/2024		<0.0002	
9/9/2024	<0.0002		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								9E-05 (J)	<0.0002
8/31/2016							0.00015 (J)		
9/1/2016					<0.0002	<0.0002			
9/2/2016	5E-05 (J)								
9/7/2016				<0.0002					
12/6/2016							0.00012 (J)	0.0001 (J)	5E-05 (J)
12/8/2016	<0.0002			<0.0002	<0.0002	<0.0002			
3/28/2017			<0.0002				0.00017 (J)		<0.0002
3/29/2017	0.0001 (J)							0.00012 (J)	
3/30/2017		0.0002 (J)				6E-05 (J)			
3/31/2017				4E-05 (J)	<0.0002				
5/12/2017		0.00015 (J)	8.2E-05 (J)						
6/15/2017		0.00019 (J)	8E-05 (J)						
7/11/2017			<0.0002				0.0002 (J)	6E-05 (J)	<0.0002
7/12/2017		0.00012 (J)							
7/13/2017	<0.0002			<0.0002	<0.0002	<0.0002			
10/24/2017			<0.0002					<0.0002	<0.0002
10/25/2017	<0.0002			<0.0002			9E-05 (J)		
10/26/2017		0.00012 (J)			<0.0002	<0.0002			
2/27/2018			<0.0002				9E-05 (J)	4.2E-05 (J)	4.2E-05 (J)
2/28/2018	<0.0002			<0.0002					
3/1/2018		<0.0002			<0.0002				
3/2/2018						<0.0002			
7/11/2018				<0.0002					<0.0002
7/12/2018	5.5E-05 (J)	0.00016 (J)			<0.0002	<0.0002			
11/6/2018			0.00059				0.00055	<0.0002	<0.0002
11/7/2018	<0.0002			<0.0002	<0.0002	<0.0002			
11/8/2018		<0.0002							
8/27/2019			<0.0002				0.00016 (J)		0.00021 (J)
8/28/2019				<0.0002				<0.0002	
8/29/2019	<0.0002	<0.0002			<0.0002	<0.0002			
10/15/2019			<0.0002						
10/16/2019							<0.0002	<0.0002	
10/17/2019				<0.0002	<0.0002				0.00042 (J)
10/18/2019	<0.0002	<0.0002				<0.0002			
3/2/2020			<0.0002				<0.0002		
3/3/2020	<0.0002							<0.0002	<0.0002
3/4/2020		0.00026		<0.0002	<0.0002	<0.0002			
8/11/2020									0.00026
8/12/2020			<0.0002		<0.0002		0.00017 (J)	7.9E-05 (J)	
8/13/2020		0.00014 (J)		<0.0002		<0.0002			
8/14/2020	<0.0002								
9/22/2020			<0.0002	<0.0002			0.0002 (J)		0.00013 (J)
9/23/2020					<0.0002	<0.0002		<0.0002	
9/24/2020	<0.0002	0.0002 (J)							
3/1/2021			<0.0002						
3/2/2021							9.4E-05 (J)	<0.0002	0.00017 (J)
3/3/2021	<0.0002	0.00033		<0.0002	<0.0002	<0.0002			
9/9/2021		0.00011 (J)							
9/10/2021	0.00011 (J)		0.00013 (J)		<0.0002	<0.0002	0.0003		0.00014 (J)
9/13/2021				<0.0002				<0.0002	
1/20/2022	<0.0002	<0.0002		<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.0002				
1/24/2022			0.00022			<0.0002	0.00028		
1/25/2022								<0.0002	
1/26/2022									0.00014 (J)
9/13/2022				<0.0002	<0.0002	<0.0002			
9/14/2022							0.00022		
9/15/2022								<0.0002	
9/16/2022	<0.0002								
9/19/2022			<0.0002						0.0002
9/20/2022		<0.0002							
2/1/2023				<0.0002					
2/3/2023			<0.0002		<0.0002	<0.0002			0.00017 (J)
2/6/2023	0.00014 (J)	<0.0002							
2/7/2023							0.00026	<0.0002	
9/11/2023	<0.0002	<0.0002							
9/12/2023					<0.0002			0.00013 (J)	
9/13/2023			<0.0002	<0.0002		<0.0002	0.00028		
9/14/2023									
1/30/2024				<0.0002					
1/31/2024	<0.0002	<0.0002							
2/1/2024			<0.0002				0.00024	<0.0002	
2/5/2024					<0.0002	<0.0002			
9/5/2024		<0.0002		<0.0002	<0.0002				
9/6/2024			<0.0002				0.00025		
9/9/2024	<0.0002							<0.0002	
9/10/2024						<0.0002			
9/11/2024									<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.0002
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.0002
9/5/2024	
9/6/2024	
9/9/2024	<0.0002
9/10/2024	
9/11/2024	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.01								
9/24/2020									
9/25/2020	<0.01								
9/28/2020									
12/9/2020				0.0012 (J)		<0.01	<0.01	0.0055 (J)	
12/17/2020			<0.01		<0.01				
1/11/2021			<0.01						
1/12/2021		0.0022 (J)		<0.01				0.0054 (J)	
3/3/2021									
3/4/2021			<0.01	<0.01	<0.01	<0.01	<0.01		
3/5/2021		<0.01						0.0067 (J)	
3/8/2021	<0.01								
3/12/2021									
4/15/2021									0.00089 (J)
9/9/2021									
9/10/2021			<0.01						
9/13/2021	<0.01	<0.01			<0.01	<0.01			
9/14/2021				<0.01			<0.01	0.013	<0.01
1/20/2022									<0.01
1/21/2022	<0.01								
1/24/2022				0.00083 (J)		<0.01	<0.01	0.0052 (J)	
1/25/2022					<0.01				
1/26/2022		<0.01							
1/27/2022			<0.01						
6/6/2022									
9/8/2022	<0.01								
9/13/2022				<0.01					
9/14/2022						<0.01		0.0069 (J)	
9/15/2022			0.0015 (J)				<0.01		
9/16/2022		<0.01			<0.01				
9/19/2022									<0.01
2/2/2023	0.19		<0.01						
2/3/2023		<0.01		<0.01					<0.01
2/6/2023						<0.01			
2/7/2023					<0.01		<0.01	0.0077 (J)	
9/6/2023	<0.01								
9/7/2023									
9/8/2023		<0.01							
9/11/2023			<0.01		<0.01				
9/12/2023						<0.01			<0.01
9/13/2023				0.00092 (J)			0.00078 (J)	0.0071 (J)	
1/31/2024	<0.01								
2/1/2024						<0.01	<0.01		
2/2/2024		<0.01	<0.01		<0.01				
2/5/2024				<0.01				0.01	<0.01
9/5/2024	<0.01								
9/9/2024					<0.01	<0.01	<0.01	0.008 (J)	<0.01
9/10/2024		<0.01	<0.01	<0.01					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.01
9/11/2019			<0.01
10/21/2019			<0.01
8/13/2020			<0.01
8/17/2020		<0.01	
9/24/2020			<0.01
9/25/2020			
9/28/2020		<0.01	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.01	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.01
4/15/2021			
9/9/2021			<0.01
9/10/2021			
9/13/2021		<0.01	
9/14/2021			
1/20/2022			<0.01
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.01	
6/6/2022	<0.01		
9/8/2022			<0.01
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.01	
9/19/2022			
2/2/2023			<0.01
2/3/2023			
2/6/2023	0.0011 (J)		
2/7/2023		<0.01	
9/6/2023			
9/7/2023	0.001 (J)		<0.01
9/8/2023		<0.01	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.0011 (J)		<0.01
2/2/2024			
2/5/2024		<0.01	
9/5/2024			
9/9/2024			<0.01
9/10/2024	0.002 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.01								
1/30/2019		<0.01							
8/27/2019									
8/28/2019									
9/11/2019	<0.01								
9/12/2019		0.0018 (J)							
9/18/2019			<0.01						
9/23/2019				<0.01					
10/15/2019									
10/16/2019									
10/21/2019		0.0015 (J)		<0.01	<0.01				
10/22/2019	<0.01								
10/24/2019			<0.01						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.01						
8/14/2020					<0.01				
8/17/2020				<0.01		0.0012 (J)			
8/19/2020								<0.01	
9/22/2020									
9/24/2020			<0.01						
9/25/2020					<0.01	0.0012 (J)			
9/28/2020				<0.01				<0.01	
3/1/2021									
3/4/2021			<0.01		<0.01				
3/5/2021						<0.01			
3/9/2021								<0.01	
3/12/2021									
9/9/2021									
9/13/2021						<0.01			
9/14/2021	<0.01	<0.01	<0.01	<0.01					
9/15/2021							<0.01	<0.01	<0.01
9/16/2021					<0.01				
1/18/2022									
1/20/2022	<0.01		<0.01						
1/21/2022					<0.01				
1/25/2022		<0.01		<0.01					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.01	<0.01	<0.01
1/27/2022						<0.01			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.01	<0.01	
9/13/2022			<0.01		<0.01				<0.01
9/14/2022	<0.01								
9/16/2022		<0.01		<0.01		<0.01			
1/31/2023							<0.01	<0.01	
2/1/2023									<0.01
2/2/2023	<0.01								
2/3/2023					<0.01				
2/6/2023			<0.01						
2/7/2023		<0.01		<0.01		<0.01			
9/6/2023							<0.01	<0.01	<0.01
9/7/2023	<0.01								
9/11/2023		<0.01		0.00081 (J)					
9/12/2023			<0.01		<0.01	<0.01			
1/30/2024							<0.01	<0.01	
1/31/2024									<0.01
2/1/2024	<0.01	<0.01		<0.01	<0.01				
2/5/2024			<0.01			<0.01			
9/4/2024							<0.01	<0.01	<0.01
9/5/2024									
9/6/2024	<0.01				<0.01				
9/9/2024		<0.01		<0.01					
9/10/2024						<0.01			
9/11/2024			<0.01						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.0242	<0.01
5/11/2017		0.0375	
5/15/2017			<0.01
6/15/2017		0.0409	<0.01
7/11/2017			<0.01
7/12/2017		0.0321	
8/8/2017			<0.01
10/24/2017		0.0227	<0.01
2/27/2018			<0.01
3/8/2018		0.035	
7/10/2018			<0.01
7/12/2018		0.034	
11/6/2018			<0.01
11/7/2018		0.029	
1/28/2019			
1/30/2019			
8/27/2019			<0.01
8/28/2019		0.031	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.01
10/16/2019		0.037	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.01
3/9/2020		0.026	
8/11/2020			<0.01
8/13/2020		0.012	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.039	<0.01
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.01
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.018	
9/9/2021		0.025	<0.01
9/13/2021			
9/14/2021			
9/15/2021	<0.01		
9/16/2021			
1/18/2022			<0.01
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.0015 (J)		
1/27/2022			
1/28/2022		0.026	
9/7/2022			<0.01
9/8/2022		0.027	
9/12/2022			
9/13/2022	0.00084 (J)		
9/14/2022			
9/16/2022			
1/31/2023	0.0014 (J)		<0.01
2/1/2023		0.023	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00075 (J)		<0.01
9/7/2023		0.022	
9/11/2023			
9/12/2023			
1/30/2024	0.00095 (J)	0.025	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.01
9/5/2024	<0.01		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.01	<0.01			<0.01			
9/1/2016				<0.01					<0.01
9/2/2016									
9/6/2016					0.0371		<0.01		
9/7/2016								<0.01	
12/6/2016		<0.01	<0.01			<0.01			
12/7/2016				<0.01	0.0273		<0.01		<0.01
12/8/2016								<0.01	
3/28/2017	0.0009 (J)								
3/29/2017		<0.01	<0.01	<0.01		<0.01			<0.01
3/30/2017					0.03		<0.01	<0.01	
5/11/2017									
5/12/2017	<0.01								
6/15/2017									
6/16/2017	<0.01								
7/11/2017	<0.01								
7/12/2017		<0.01	<0.01	<0.01	0.0323	<0.01	<0.01	<0.01	<0.01
10/24/2017	<0.01	<0.01	<0.01						
10/25/2017				<0.01		<0.01	<0.01	<0.01	<0.01
11/15/2017					0.0275				
2/27/2018	<0.01	<0.01	<0.01	<0.01		<0.01			
2/28/2018					0.0093 (J)		<0.01	<0.01	<0.01
7/10/2018	<0.01								
7/11/2018				<0.01		<0.01	<0.01	<0.01	<0.01
11/6/2018	<0.01	<0.01	<0.01						
11/7/2018				<0.01	0.018	<0.01	<0.01	<0.01	<0.01
8/27/2019	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01	
8/28/2019					0.015		<0.01		<0.01
8/29/2019									
9/17/2019				<0.01					
10/15/2019	<0.01	<0.01	<0.01	<0.01					
10/16/2019					0.014	<0.01			<0.01
10/17/2019							<0.01		
10/18/2019								<0.01	
3/2/2020	<0.01		<0.01	<0.01					
3/3/2020		<0.01			0.018	<0.01	<0.01		<0.01
3/4/2020								<0.01	
8/11/2020	<0.01	<0.01	<0.01	<0.01		<0.01			<0.01
8/12/2020					0.012				
8/13/2020							<0.01		
8/14/2020								<0.01	
9/22/2020	<0.01		<0.01	<0.01		<0.01			<0.01
9/23/2020					0.012		<0.01		
9/24/2020		<0.01						<0.01	
3/1/2021	<0.01								
3/2/2021			<0.01		0.011	<0.01	<0.01		<0.01
3/3/2021				<0.01				<0.01	
3/4/2021		<0.01							
9/8/2021	<0.01								
9/9/2021			<0.01	<0.01	0.011	<0.01	<0.01		<0.01
9/10/2021		<0.01							
9/13/2021								<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.01								
1/20/2022									
1/21/2022									
1/24/2022							<0.01	<0.01	
1/25/2022			<0.01	<0.01	0.0093 (J)	<0.01			<0.01
1/26/2022		<0.01							
9/7/2022	<0.01								
9/13/2022						<0.01	<0.01		
9/14/2022								<0.01	<0.01
9/15/2022		<0.01	<0.01	<0.01	0.0094 (J)				
9/20/2022									
1/31/2023	<0.01								
2/1/2023					0.0085 (J)	<0.01			
2/2/2023		<0.01					<0.01		
2/6/2023			<0.01	<0.01				<0.01	<0.01
2/7/2023									
9/6/2023	<0.01								
9/8/2023			<0.01		0.0073 (J)	<0.01	<0.01		<0.01
9/11/2023		<0.01		<0.01					
9/13/2023								<0.01	
1/30/2024	<0.01								
1/31/2024					0.0081 (J)				
2/1/2024			<0.01						<0.01
2/2/2024		<0.01		<0.01					
2/5/2024						<0.01	<0.01		
2/6/2024								<0.01	
9/4/2024	<0.01								
9/5/2024				<0.01	0.0074 (J)		<0.01		<0.01
9/9/2024			<0.01						
9/10/2024						<0.01		<0.01	
9/11/2024		<0.01							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.01	<0.01
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.01	
12/8/2016			<0.01
3/28/2017			
3/29/2017		<0.01	
3/30/2017	0.0009 (J)		<0.01
5/11/2017	0.0009 (J)		
5/12/2017			
6/15/2017	<0.01		
6/16/2017			
7/11/2017	<0.01		
7/12/2017		<0.01	<0.01
10/24/2017	<0.01		
10/25/2017		<0.01	<0.01
11/15/2017			
2/27/2018	<0.01		
2/28/2018		<0.01	<0.01
7/10/2018			
7/11/2018	<0.01	<0.01	<0.01
11/6/2018	<0.01		
11/7/2018		<0.01	<0.01
8/27/2019	0.002 (J)		
8/28/2019			
8/29/2019		<0.01	<0.01
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0018 (J)	<0.01	<0.01
10/18/2019			
3/2/2020			
3/3/2020	0.0022 (J)		<0.01
3/4/2020		<0.01	
8/11/2020	0.002 (J)		
8/12/2020			
8/13/2020		<0.01	
8/14/2020			<0.01
9/22/2020		<0.01	
9/23/2020	0.0022 (J)		
9/24/2020			<0.01
3/1/2021			
3/2/2021	0.0021 (J)	<0.01	
3/3/2021			<0.01
3/4/2021			
9/8/2021			
9/9/2021	0.0023 (J)		<0.01
9/10/2021		<0.01	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.0022 (J)		<0.01
1/21/2022		<0.01	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.01	<0.01
9/20/2022	0.0021 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0021 (J)		
2/7/2023		<0.01	<0.01
9/6/2023			
9/8/2023			
9/11/2023		<0.01	<0.01
9/13/2023	0.0022 (J)		
1/30/2024			
1/31/2024			<0.01
2/1/2024	0.0024 (J)	<0.01	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			<0.01
9/5/2024		<0.01	
9/9/2024	0.0023 (J)		
9/10/2024			
9/11/2024			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.01	<0.01
8/31/2016							<0.01		
9/1/2016					<0.01	<0.01			
9/2/2016	<0.01								
9/7/2016				<0.01					
12/6/2016							<0.01	<0.01	<0.01
12/8/2016	<0.01			<0.01	<0.01	<0.01			
3/28/2017			0.008 (J)				<0.01		<0.01
3/29/2017	<0.01							<0.01	
3/30/2017		0.0084 (J)				<0.01			
3/31/2017				<0.01	<0.01				
5/12/2017		0.0085 (J)	0.0062 (J)						
6/15/2017		0.0104	0.0044 (J)						
7/11/2017			0.0041 (J)				<0.01	<0.01	<0.01
7/12/2017		0.0092 (J)							
7/13/2017	<0.01			<0.01	<0.01	<0.01			
10/24/2017			0.0072 (J)					<0.01	<0.01
10/25/2017	<0.01			<0.01			<0.01		
10/26/2017		0.0077 (J)			<0.01	<0.01			
2/27/2018			0.0069 (J)				<0.01	<0.01	<0.01
2/28/2018	<0.01			<0.01					
3/1/2018		0.0045 (J)			<0.01				
3/2/2018						<0.01			
7/11/2018				<0.01					<0.01
7/12/2018	<0.01	0.012			<0.01	<0.01			
11/6/2018			<0.01 (J)				<0.01	<0.01	<0.01
11/7/2018	<0.01			<0.01	<0.01	<0.01			
11/8/2018		0.012							
8/27/2019			0.0065 (J)				<0.01		<0.01
8/28/2019				<0.01				<0.01	
8/29/2019	<0.01	0.014			<0.01	<0.01			
10/15/2019			0.0061 (J)						
10/16/2019							<0.01	<0.01	
10/17/2019				<0.01	<0.01				<0.01
10/18/2019	<0.01	0.0091 (J)				<0.01			
3/2/2020			0.0059 (J)				<0.01		
3/3/2020	<0.01							<0.01	<0.01
3/4/2020		0.0047 (J)		<0.01	<0.01	<0.01			
8/11/2020									<0.01
8/12/2020			0.0057 (J)		<0.01		<0.01	<0.01	
8/13/2020		0.013		<0.01		<0.01			
8/14/2020	<0.01								
9/22/2020			0.0028 (J)	<0.01			<0.01		<0.01
9/23/2020					<0.01	<0.01		<0.01	
9/24/2020	<0.01	0.0088 (J)							
3/1/2021			0.0051 (J)						
3/2/2021							<0.01	<0.01	<0.01
3/3/2021	<0.01	0.0026 (J)		<0.01	<0.01	<0.01			
9/9/2021		0.01							
9/10/2021	<0.01		0.0052 (J)		<0.01	<0.01	<0.01		<0.01
9/13/2021				<0.01				<0.01	
1/20/2022	<0.01	0.0073 (J)		<0.01					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.01				
1/24/2022			0.0045 (J)			<0.01	<0.01		
1/25/2022								<0.01	
1/26/2022									<0.01
9/13/2022				<0.01	<0.01	<0.01			
9/14/2022							<0.01		
9/15/2022								<0.01	
9/16/2022	<0.01								
9/19/2022			0.0037 (J)						<0.01
9/20/2022		0.0095 (J)							
2/1/2023				<0.01					
2/3/2023			0.0035 (J)		<0.01	<0.01			<0.01
2/6/2023	<0.01	0.007 (J)							
2/7/2023							<0.01	<0.01	
9/11/2023	0.00097 (J)	0.0088 (J)							
9/12/2023					<0.01			<0.01	
9/13/2023			0.0034 (J)	<0.01		<0.01	<0.01		
9/14/2023									
1/30/2024				<0.01					
1/31/2024	<0.01	0.0069 (J)							
2/1/2024			0.0027 (J)				<0.01	<0.01	
2/5/2024					<0.01	<0.01			
9/5/2024		0.0097 (J)		<0.01	<0.01				
9/6/2024			0.0029 (J)				<0.01		
9/9/2024	<0.01							<0.01	
9/10/2024						<0.01			
9/11/2024									<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.0034 (J)
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.0033 (J)
9/5/2024	
9/6/2024	
9/9/2024	0.0022 (J)
9/10/2024	
9/11/2024	

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2019									
10/21/2019									
8/3/2020	4.93								
8/13/2020									
8/17/2020	5.02								
9/24/2020									
9/25/2020	5.53								
9/28/2020									
12/9/2020				6.44		5.91	5.94	6.64	
12/17/2020			5.39		5.82				
1/11/2021			5.55						
1/12/2021		5.26		6.24				6.71	
3/3/2021									
3/4/2021			5.43	6.27	5.85	5.97	5.88		
3/5/2021		6.52						6.69	
3/8/2021	5.32								
3/12/2021									
4/15/2021									5.46
9/9/2021									
9/10/2021			5.36						
9/13/2021	5.27	6.07			5.91	5.88			
9/14/2021				8.58			5.81	7.29	5.3
1/20/2022									5.28
1/21/2022	5.23								
1/24/2022				6.48		6.05	5.99	7.11	
1/25/2022					5.84				
1/26/2022		5.87							
1/27/2022			5.33						
6/6/2022									
9/8/2022	5.24								
9/9/2022									
9/13/2022				6.49					
9/14/2022						5.87		7.09	
9/15/2022			5.43				5.86		
9/16/2022		5.92			5.82				
9/19/2022									5.21
2/2/2023	5.3		5.47						
2/3/2023		5.95		6.17					5.59
2/6/2023						5.9			
2/7/2023					5.86		5.92	7.3	
9/6/2023	5.25								
9/7/2023									
9/8/2023		6.04							
9/11/2023			5.39		5.8				
9/12/2023						5.85			5.27
9/13/2023				6.44			5.88	7.01	
1/31/2024	5.35								
2/1/2024						5.84	5.7		
2/2/2024		6.75	5.45		5.83				
2/5/2024				6.26				7.11	5.26
9/5/2024	5.2								
9/9/2024					5.94	5.82	5.76	7.11	5.33

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/10/2024		6.24	5.4	6.41					
9/11/2024									

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/3/2020			
8/13/2020			6.4
8/17/2020		4.82	
9/24/2020			6.55
9/25/2020			
9/28/2020		4.9	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		4.71	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34
4/15/2021			
9/9/2021			6.31
9/10/2021			
9/13/2021		4.69	
9/14/2021			
1/20/2022			6.32
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		4.7	
6/6/2022	6.02		
9/8/2022			6.22
9/9/2022			6.22 (D)
9/13/2022			
9/14/2022	6.07		
9/15/2022			
9/16/2022		4.56	
9/19/2022			
2/2/2023			6.33
2/3/2023			
2/6/2023	6.08		
2/7/2023		4.55	
9/6/2023			
9/7/2023	5.94		6.38
9/8/2023		4.6	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	6.01		6.41
2/2/2024			
2/5/2024		4.71	
9/5/2024			
9/9/2024			6.35

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/10/2024	6.03		
9/11/2024		4.82	

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	5.39								
1/30/2019		6.83							
3/12/2019									
3/13/2019									
8/27/2019									
8/28/2019									
9/11/2019	5.48								
9/12/2019		6.87							
9/18/2019			6.14						
9/23/2019				5.21					
10/15/2019									
10/16/2019									
10/21/2019		6.74		5.34	5.54				
10/22/2019	5.55								
10/24/2019			6.26						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			6.14						
8/14/2020					5.59				
8/17/2020				5.48		5.76			
8/19/2020								4.78	
9/22/2020									
9/24/2020			6.46						
9/25/2020					5.97	5.75			
9/28/2020				5.84				4.67	
3/1/2021									
3/4/2021			6.33		5.6				
3/5/2021						5.21			
3/9/2021							4.62	4.73	5.55
3/12/2021	5.51	6.53		5.29					
3/15/2021									
9/9/2021									
9/13/2021						5.68			
9/14/2021	5.46	5.54	6.42	5.15					
9/15/2021							4.55	4.6	5.49
9/16/2021					5.58				

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/18/2022									
1/20/2022	5.46		6.48						
1/21/2022					5.56				
1/25/2022		6.35		5.07					
1/26/2022							4.5	4.74	6.52
1/27/2022						5.5			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							4.56	4.7	
9/13/2022			6.34		5.6				5.54
9/14/2022	5.31								
9/16/2022		6.6		5.02 (D)		5.47			
1/31/2023							4.48	4.68	
2/1/2023									5.47
2/2/2023	5.85								
2/3/2023					5.59				
2/6/2023			6.53						
2/7/2023		6.22		5.28		5.59			
9/6/2023							4.71	4.85	5.61
9/7/2023	5.27								
9/11/2023		6.22		5.6					
9/12/2023			6.55		5.66	5.41			
1/30/2024							4.64	4.72	
1/31/2024									5.53
2/1/2024	5.84	6.17		5.61	5.65				
2/5/2024			6.53			5.48			
9/4/2024							4.58	4.81	5.6
9/5/2024									
9/6/2024	5.73				5.61				
9/9/2024		5.71		5.13					
9/10/2024						5.54			
9/11/2024			6.32						

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		6.29	
5/11/2017		6.6	
5/15/2017			5.72
6/15/2017		6.41	5.74
7/11/2017			5.62
7/12/2017		5.91	
8/8/2017			5.6
10/24/2017		5.51	5.71
11/15/2017		6.5	
2/27/2018			5.5
3/8/2018		6.18	
7/10/2018			5.44
7/12/2018		6.33	
11/6/2018			5.71
11/7/2018		6.22	
1/28/2019			
1/30/2019			
3/12/2019			5.52
3/13/2019		6	
8/27/2019			5.53
8/28/2019		6.04	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			5.61
10/16/2019		6.69	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			5.54
3/9/2020		6.41	
8/11/2020			5.86
8/13/2020		6.17	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		6.43	6.01
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			5.43
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		6.38	
3/15/2021	6.3		
9/9/2021		6.41	5.5
9/13/2021			
9/14/2021			
9/15/2021	5.4		
9/16/2021			

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/18/2022			5.5
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	6.52		
1/27/2022			
1/28/2022		6.35	
9/7/2022			5.6
9/8/2022		6.32	
9/12/2022			
9/13/2022	6.18		
9/14/2022			
9/16/2022			
1/31/2023	6.76		5.59
2/1/2023		6.42	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	6.16	6.51	5.5
9/7/2023			
9/11/2023			
9/12/2023			
1/30/2024	6.65	6.28	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			5.51
9/5/2024	6.04		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		6.1	

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		4.58	5.83			5.68			
9/1/2016			5.67						4.64
9/2/2016									
9/6/2016					5.69		5.79		
9/7/2016								5.05	
12/6/2016		4.9	5.91			5.63			
12/7/2016				5.65	5.96		5.94		4.63
12/8/2016								5.12	
3/28/2017	5.94								
3/29/2017		4.62	5.74	5.61		5.68			4.7
3/30/2017					5.94		5.8	5.08	
5/11/2017									
5/12/2017	5.46								
6/15/2017									
6/16/2017	5.81								
7/11/2017	5.74								
7/12/2017		4.81	5.82	5.81	5.84	5.66	5.81	5	4.76
10/24/2017	5.86	4.8	5.79						
10/25/2017				6.07		6.18	5.9	5.73	4.66
11/15/2017	5.77	4.9			5.87				
2/27/2018	5.66	5.55	5.94	5.73		5.63			
2/28/2018					5.99		5.8	5.22	4.63
7/10/2018	5.63	5.27	5.62		5.92				
7/11/2018						5.61	5.87	5.07	4.71
11/6/2018	5.79	5.3	5.69						
11/7/2018				5.85	5.87	5.58	5.9	5.09	4.69
3/12/2019	5.74	5.26	5.7	5.98					
3/13/2019					5.79	5.61		5.07	4.76
3/14/2019							5.77		
8/27/2019	5.87	5.14	5.55	5.55		5.58		4.96	
8/28/2019					5.71		5.88		4.85
8/29/2019									
9/17/2019				5.6					
10/15/2019	5.88	4.96	5.6	5.89					
10/16/2019					5.69	5.66			4.87
10/17/2019							5.76		
10/18/2019								5.08	
3/2/2020	5.77		5.62	6.13					
3/3/2020		4.77			5.71	5.73	5.79	5.07	4.89
3/4/2020								5.07	
8/11/2020	5.96	4.92	5.68	5.69		5.73			4.9
8/12/2020					5.68				
8/13/2020							6.58		
8/14/2020								5.01	
9/22/2020	6.06		5.54	6		5.7			4.91
9/23/2020					5.72		5.85		
9/24/2020		4.89						5.1	
3/1/2021	5.8								
3/2/2021			5.59		5.68	5.69	5.81		4.84
3/3/2021				6.13				5.23	
3/4/2021		5.27							
9/8/2021	5.76								

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/9/2021			5.59	6.07	5.69	5.7	5.83		4.82
9/10/2021		5.05							
9/13/2021								5.06	
1/18/2022	5.51								
1/20/2022									
1/21/2022									
1/24/2022							6.06	5.15	
1/25/2022			5.54	5.96	4.68	5.69			4.79
1/26/2022		4.9							
9/7/2022	5.65								
9/13/2022						5.71	5.82		
9/14/2022								5.08	4.81
9/15/2022		4.87	5.52	5.75	5.56				
9/20/2022									
1/31/2023	5.78								
2/1/2023					5.54	5.87			
2/2/2023		4.67					5.86		
2/6/2023			5.45	5.9				5.13	4.82
2/7/2023									
9/6/2023	5.82								
9/8/2023			5.44		5.59	5.67	5.81		4.78
9/11/2023		4.56		6.1					
9/13/2023								5.04	
1/30/2024	5.79								
1/31/2024					5.74				
2/1/2024			5.49						4.98
2/2/2024		4.72		6.06					
2/5/2024						5.69	5.86		
2/6/2024								5.07	
9/4/2024	5.85								
9/5/2024				5.79	5.58		5.79		4.79
9/9/2024			5.53						
9/10/2024						5.68		5.01	
9/11/2024		4.58							

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		4.7	5.7
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016			
12/8/2016			5.64
3/28/2017			
3/29/2017		4.7	
3/30/2017	5.75		5.79
5/11/2017	5.67		
5/12/2017			
6/15/2017	5.75		
6/16/2017			
7/11/2017	5.87		
7/12/2017		4.67	5.71
10/24/2017	5.82		
10/25/2017		4.71	5.68
11/15/2017			
2/27/2018	5.85		
2/28/2018		4.51	5.71
7/10/2018			
7/11/2018	5.85	4.68	
11/6/2018	5.88		
11/7/2018		4.64	5.61
3/12/2019	5.94		
3/13/2019		4.65	5.62
3/14/2019			
8/27/2019	5.94		
8/28/2019			
8/29/2019		4.64	5.61
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	6.16	4.64	5.57
10/18/2019			
3/2/2020			
3/3/2020	5.94		5.65
3/4/2020		4.22	
8/11/2020	6.04		
8/12/2020			
8/13/2020		4.36	
8/14/2020			5.66
9/22/2020		4.66	
9/23/2020	5.99		
9/24/2020			5.64
3/1/2021			
3/2/2021	6.01	4.45	
3/3/2021			5.63
3/4/2021			
9/8/2021			

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:47 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/9/2021	6		5.73
9/10/2021		4.67	
9/13/2021			
1/18/2022			
1/20/2022	5.93		5.73
1/21/2022		4.47	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		4.58	5.69
9/20/2022	5.98		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	5.17		
2/7/2023		4.33	5.7
9/6/2023			
9/8/2023			
9/11/2023		4.06	5.61
9/13/2023	6.06		
1/30/2024			
1/31/2024			5.67
2/1/2024	6.02	4.49	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			5.62
9/5/2024		4.22	
9/9/2024	6.07		
9/10/2024			
9/11/2024			

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								5.33	4.08
8/31/2016							4.31		
9/1/2016					5.11	4.7			
9/2/2016	5.74								
9/7/2016				5.35					
12/6/2016							4.43	5.39	4.15
12/8/2016	6.03			5.41	5.71	4.58			
3/28/2017			6.01				4.44		4.16
3/29/2017	5.77							5.23	
3/30/2017		6.03				4.19			
3/31/2017				5.36	4.58				
5/12/2017		5.97	5.87						
6/15/2017		6	6.03						
7/11/2017			6.04				4.46	5.33	4.23
7/12/2017		5.97							
7/13/2017	5.71			5.27	4.95	4.3			
10/24/2017			5.99					5.05	4.06
10/25/2017	5.77			5.38			4.54		
10/26/2017		5.9			4.41	4.39			
11/15/2017			5.92						
2/27/2018			6.03				4.87	5.08	4.04
2/28/2018	5.77			5.37					
3/1/2018		6.19			3.93				
3/2/2018						4.14			
7/10/2018			5.96				4.77	5.11	
7/11/2018				5.19					4.03
7/12/2018	5.62	5.97			4.33	4.36			
11/6/2018			5.97				4.89	5.13	4
11/7/2018	5.71			5.18	4.48	4.23			
11/8/2018		5.96							
3/12/2019			5.85				4.42	5.07	3.98
3/14/2019	5.67	5.99		5.1	3.88	4.12			
8/27/2019			5.84				4.83		4.02
8/28/2019				5.3				5.11	
8/29/2019	5.66	5.96			4.35	4.28			
10/15/2019			5.98						
10/16/2019							4.78	5.33	
10/17/2019				5.2	4.6				4.02
10/18/2019	5.61	5.99				4.22			
3/2/2020			5.88				4.8		
3/3/2020	5.74							5.12	4.07
3/4/2020		5.68		5.18	3.86	4.27			
8/11/2020									4
8/12/2020			5.93		4.43		4.84	5.36	
8/13/2020		6		5.34		4.26			
8/14/2020	5.76								
9/22/2020			5.88	5.76			4.83		4
9/23/2020					4.4	4.64		5.21	
9/24/2020	5.69	6.19							
3/1/2021			5.82						
3/2/2021							5	6.6	3.99
3/3/2021	5.71	5.85		5.3	3.98	4.14			

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/9/2021		6							
9/10/2021	5.65		5.83		4.1	4.3	4.89		3.98
9/13/2021				5.15				5.05	
1/20/2022	5.72	5.95		5.27					
1/21/2022					3.72				
1/24/2022			5.79			4.03	4.79		
1/25/2022								5.16	
1/26/2022									3.68
9/13/2022				5.04	4.15	4.25			
9/14/2022							4.75		
9/15/2022								5.2	
9/16/2022	5.62								
9/19/2022			5.76						3.98
9/20/2022		6							
2/1/2023				5.17					
2/3/2023			5.77		3.88	4.2			4.02
2/6/2023	5.84	5.97							
2/7/2023							4.89	5.23	
3/16/2023									
3/21/2023									
4/10/2023									
9/11/2023	5.57	5.99							
9/12/2023				5.04	3.99			5.02	
9/13/2023			5.64			4.06	4.74		
9/14/2023									
1/30/2024				5.18					
1/31/2024	5.71	5.95							
2/1/2024			5.67				4.78	5.21	
2/5/2024					4.11	4.33			
9/5/2024		6.11		5.05	4.19				
9/6/2024			5.65				4.74		
9/9/2024	5.6							5.26	
9/10/2024						4.35			
9/11/2024									3.96

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	

Time Series

Constituent: pH, Field (SU) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/16/2023	5.66
3/21/2023	6.53
4/10/2023	5.98
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	5.84
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	6.06
9/5/2024	
9/6/2024	
9/9/2024	6.11
9/10/2024	
9/11/2024	

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
9/25/2020	<0.005								
9/28/2020									
12/9/2020				<0.005		<0.005	<0.005	<0.005	
12/17/2020			<0.005		<0.005				
1/11/2021			<0.005						
1/12/2021		<0.005		0.0016 (J)				<0.005	
3/3/2021									
3/4/2021			<0.005	0.0031 (J)	<0.005	<0.005	0.0016 (J)		
3/5/2021		0.0031 (J)						0.0022 (J)	
3/8/2021	0.0019 (J)								
3/12/2021									
4/15/2021									0.0016 (J)
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				<0.005			<0.005	<0.005	0.0022 (J)
1/20/2022									0.0021 (J)
1/21/2022	<0.005								
1/24/2022				<0.005		<0.005	<0.005	<0.005	
1/25/2022					<0.005				
1/26/2022		<0.005							
1/27/2022			<0.005						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005		<0.005	
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									0.0038 (J)
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		0.0018 (J)					0.005 (J)
2/6/2023						<0.005			
2/7/2023					<0.005		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			0.0052
9/13/2023				0.0016 (J)			<0.005	<0.005	
1/31/2024	<0.005								
2/1/2024						<0.005	0.025		
2/2/2024		<0.005	<0.005		<0.005				
2/5/2024				0.0015 (J)				<0.005	0.0045 (J)
9/5/2024	<0.005								
9/9/2024					<0.005	<0.005	<0.005	<0.005	0.0054
9/10/2024		<0.005	<0.005	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
8/13/2020			<0.005
8/17/2020		0.011	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.029	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.013	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.011	
9/14/2021			
1/20/2022			<0.005
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0066	
6/6/2022	<0.005		
9/8/2022			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.01	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		0.01	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		0.0087	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.005		<0.005
2/2/2024			
2/5/2024		0.02	
9/5/2024			
9/9/2024			<0.005
9/10/2024	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		0.013	

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018		<0.005							
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		0.0016 (J)	0.0082 (J)				
10/22/2019	<0.005								
10/24/2019			<0.005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.005						
8/14/2020					0.015				
8/17/2020				<0.005		0.0017 (J)			
8/19/2020								0.018	
9/22/2020									
9/24/2020			<0.005						
9/25/2020					0.019	0.0033 (J)			
9/28/2020				0.0021 (J)				0.036	
3/1/2021									
3/4/2021			0.0017 (J)		0.024				
3/5/2021						0.0033 (J)			
3/9/2021								0.0099 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.0021 (J)			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0067	0.0076	0.0024 (J)
9/16/2021					0.025				
1/18/2022									
1/20/2022	<0.005		<0.005						
1/21/2022					0.027				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/25/2022		<0.005		0.002 (J)					
1/26/2022							0.0039 (J)	0.0063	0.0015 (J)
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.012	0.013	
9/13/2022			<0.005		0.024				0.0032 (J)
9/14/2022	<0.005								
9/16/2022		<0.005		<0.005		0.002 (J)			
1/31/2023							0.0086	0.013	
2/1/2023									0.0036 (J)
2/2/2023	<0.005								
2/3/2023					0.021				
2/6/2023			<0.005						
2/7/2023		<0.005		0.0025 (J)		0.0024 (J)			
9/6/2023							0.0049 (J)	0.0071	0.0031 (J)
9/7/2023	<0.005								
9/11/2023		<0.005		0.0018 (J)					
9/12/2023			<0.005		0.02	0.0027 (J)			
1/30/2024							0.019	0.0063	
1/31/2024									0.0032 (J)
2/1/2024	<0.005	<0.005		0.0028 (J)	0.017				
2/5/2024			<0.005			0.0039 (J)			
9/4/2024							0.0051	0.0023 (J)	0.0022 (J)
9/5/2024									
9/6/2024	<0.005				0.012				
9/9/2024		<0.005		0.0017 (J)					
9/10/2024						0.0018 (J)			
9/11/2024			<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.005	<0.005
5/11/2017		<0.005	
5/15/2017			<0.005
6/15/2017		<0.005	<0.005
7/11/2017			<0.005
7/12/2017		<0.005	
8/8/2017			<0.005
10/24/2017		<0.005	<0.005
2/19/2018			
2/27/2018			<0.005
3/8/2018		<0.005	
7/10/2018			<0.005
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.005
10/16/2019		<0.005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.005
3/9/2020		<0.005	
8/11/2020			<0.005
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.005	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	0.0033 (J)		
9/16/2021			
1/18/2022			<0.005
1/20/2022			
1/21/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		<0.005	
9/7/2022			<0.005
9/8/2022		<0.005	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		<0.005	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	<0.005	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.005
9/5/2024	<0.005		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0366	<0.005			0.0016 (J)			
9/1/2016				0.0017 (J)					0.0093 (J)
9/2/2016									
9/6/2016					0.0011 (J)		<0.005		
9/7/2016								0.007 (J)	
12/6/2016		0.0026 (J)	<0.005			<0.005			
12/7/2016				<0.005	0.0015 (J)		<0.005		<0.01
12/8/2016								0.0087 (J)	
3/28/2017	<0.005								
3/29/2017		0.0286	<0.005	0.0017 (J)		<0.005			0.0071 (J)
3/30/2017					0.0015 (J)		<0.005	0.0099 (J)	
5/11/2017									
5/12/2017	<0.005								
6/15/2017									
6/16/2017	<0.005								
7/11/2017	<0.005								
7/12/2017		0.0257	<0.005	0.0019 (J)	<0.01	<0.005	<0.005	0.0072 (J)	0.0065 (J)
10/24/2017	<0.005	0.0281	<0.005						
10/25/2017				0.0024 (J)		<0.005	<0.005	0.0078 (J)	0.0087 (J)
11/15/2017					0.0019 (J)				
2/27/2018	<0.005	0.0667	<0.005	<0.005		<0.005			
2/28/2018					<0.01		<0.005	<0.01	0.0114
7/10/2018	<0.005								
7/11/2018				<0.005		0.002 (J)	<0.005	0.007 (J)	0.0036 (J)
11/6/2018	<0.005	0.049	<0.005						
11/7/2018				<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01	<0.01 (J)
8/27/2019	<0.005	0.015	<0.005	<0.005		<0.005		0.0073 (J)	
8/28/2019					0.0039 (J)		<0.005		0.004 (J)
8/29/2019									
9/17/2019				0.0014 (J)					
10/15/2019	<0.005	0.071	<0.005	0.0019 (J)					
10/16/2019					0.0031 (J)	0.0017 (J)			0.006 (J)
10/17/2019							<0.005		
10/18/2019								0.0093 (J)	
3/2/2020	<0.005		<0.005	<0.005					
3/3/2020		0.021			0.0062 (J)	0.0014 (J)	<0.005		0.0066 (J)
3/4/2020								0.0074 (J)	
8/11/2020	<0.005	0.023	<0.005	0.0019 (J)		<0.005			0.0096 (J)
8/12/2020					0.0038 (J)				
8/13/2020							0.0018 (J)		
8/14/2020								0.0084 (J)	
9/22/2020	<0.005		<0.005	<0.005		<0.005			0.0052 (J)
9/23/2020					0.0053 (J)		<0.005		
9/24/2020		0.074						0.015	
3/1/2021	<0.005								
3/2/2021			<0.005		0.006	<0.005	<0.005		0.0091
3/3/2021				<0.005				0.0072	
3/4/2021		0.05							
9/8/2021	<0.005								
9/9/2021			<0.005	<0.005	0.006	0.0017 (J)	<0.005		0.0083
9/10/2021		0.034							
9/13/2021								0.0071	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.005								
1/20/2022									
1/21/2022									
1/24/2022							<0.005	0.0064	
1/25/2022			<0.005	<0.005	0.006	0.0016 (J)			0.0029 (J)
1/26/2022		0.015							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								0.0064	0.0073
9/15/2022		0.02	<0.005	<0.005	0.004 (J)				
9/20/2022									
1/31/2023	<0.005								
2/1/2023					0.0036 (J)	0.0014 (J)			
2/2/2023		0.015					<0.005		
2/6/2023			<0.005	<0.005				0.0057	0.0042 (J)
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		0.0029 (J)	0.0015 (J)	<0.005		0.0045 (J)
9/11/2023		0.038		<0.005					
9/13/2023								0.0065	
1/30/2024	<0.005								
1/31/2024					0.0039 (J)				
2/1/2024			<0.005						0.0051
2/2/2024		0.031		<0.005					
2/5/2024						0.0019 (J)	0.001 (J)		
2/6/2024								0.0081	
9/4/2024	<0.005								
9/5/2024				<0.005	0.0023 (J)		<0.005		0.0032 (J)
9/9/2024			<0.005						
9/10/2024						0.0015 (J)		0.007	
9/11/2024		0.17							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0671	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0056 (J)	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.0521	
3/30/2017	<0.005		<0.005
5/11/2017	<0.005		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		0.0483	<0.005
10/24/2017	<0.005		
10/25/2017		0.0506	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		0.0755	<0.005
7/10/2018			
7/11/2018	0.0045 (J)	0.022	<0.005
11/6/2018	<0.01 (J)		
11/7/2018		0.044	<0.005
8/27/2019	0.0069 (J)		
8/28/2019			
8/29/2019		0.029	<0.005
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0051 (J)	0.071	<0.005
10/18/2019			
3/2/2020			
3/3/2020	0.0047 (J)		<0.005
3/4/2020		0.071	
8/11/2020	0.0053 (J)		
8/12/2020			
8/13/2020		0.091	
8/14/2020			<0.005
9/22/2020		0.023	
9/23/2020	0.0046 (J)		
9/24/2020			<0.005
3/1/2021			
3/2/2021	0.0037 (J)	0.078	
3/3/2021			<0.005
3/4/2021			
9/8/2021			
9/9/2021	0.0031 (J)		<0.005
9/10/2021		0.031	
9/13/2021			

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.0031 (J)		<0.005
1/21/2022		0.041	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.062	<0.005
9/20/2022	0.0018 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0014 (J)		
2/7/2023		0.057	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.14	<0.005
9/13/2023	<0.005		
1/30/2024			
1/31/2024			<0.005
2/1/2024	0.0014 (J)	0.082	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			<0.005
9/5/2024		0.09	
9/9/2024	0.0015 (J)		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0032 (J)	0.0833
8/31/2016							0.0182		
9/1/2016					0.0217	0.0084 (J)			
9/2/2016	<0.005								
9/7/2016				<0.005					
12/6/2016							0.012	<0.005	0.0065 (J)
12/8/2016	<0.005			<0.005	0.017	0.0084 (J)			
3/28/2017			<0.005				0.168		0.0954
3/29/2017	<0.005							0.0048 (J)	
3/30/2017		<0.005				0.0079 (J)			
3/31/2017				<0.005	0.0133				
5/12/2017		<0.005	<0.005						
6/15/2017		<0.005	<0.005						
7/11/2017			<0.005				0.0607	0.0031 (J)	0.0561
7/12/2017		<0.005							
7/13/2017	<0.005			<0.005	0.0068 (J)	0.0062 (J)			
10/24/2017			<0.005					0.0069 (J)	0.0653
10/25/2017	<0.005			<0.005			0.034		
10/26/2017		<0.005			0.0097 (J)	0.0058 (J)			
2/27/2018			<0.005				0.0348	<0.005	0.13
2/28/2018	<0.005			<0.005					
3/1/2018		<0.005			0.0124				
3/2/2018						<0.005			
7/11/2018				<0.005					0.045
7/12/2018	0.0017 (J)	<0.005			0.015	0.013			
11/6/2018			<0.005				<0.01 (J)	<0.01 (J)	0.12
11/7/2018	<0.005			<0.005	<0.01 (J)	<0.01 (J)			
11/8/2018		<0.005							
8/27/2019			<0.005				0.0031 (J)		0.067
8/28/2019				<0.005				<0.005	
8/29/2019	<0.005	<0.005			0.004 (J)	0.0023 (J)			
10/15/2019			0.0014 (J)						
10/16/2019							0.015	0.0016 (J)	
10/17/2019				<0.005	0.0062 (J)				0.19
10/18/2019	<0.005	<0.005				0.005 (J)			
3/2/2020			<0.005				0.032		
3/3/2020	<0.005							0.0018 (J)	0.046
3/4/2020		<0.005		<0.005	0.0065 (J)	0.0061 (J)			
8/11/2020									0.11
8/12/2020			<0.005		0.002 (J)		0.011	<0.005	
8/13/2020		<0.005		<0.005		0.0029 (J)			
8/14/2020	<0.005								
9/22/2020			<0.005	<0.005			0.04		0.23
9/23/2020					<0.01	0.0016 (J)		0.0028 (J)	
9/24/2020	<0.005	<0.005							
3/1/2021			<0.005						
3/2/2021							0.0081	<0.005	0.07
3/3/2021	<0.005	<0.005		<0.005	0.0039 (J)	0.0025 (J)			
9/9/2021		<0.005							
9/10/2021	<0.005		<0.005		0.0035 (J)	0.0022 (J)	0.0099		0.057
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.0016 (J)				
1/24/2022			<0.005			<0.005	0.0048 (J)		
1/25/2022								<0.005	
1/26/2022									0.025
9/13/2022				<0.005	0.0031 (J)	0.0019 (J)			
9/14/2022							0.019		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						0.048
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		0.0015 (J)	<0.005			0.031
2/6/2023	<0.005	<0.005							
2/7/2023							0.0082	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					0.0022 (J)			<0.005	
9/13/2023			<0.005	<0.005		<0.005	0.002 (J)		
9/14/2023									
1/30/2024				<0.005					
1/31/2024	<0.005	<0.005							
2/1/2024			<0.005				0.0017 (J)	<0.005	
2/5/2024					0.0032 (J)	0.0017 (J)			
9/5/2024		<0.005		<0.005	0.0011 (J)				
9/6/2024			<0.005				0.0059		
9/9/2024	<0.005							0.0012 (J)	
9/10/2024						0.0018 (J)			
9/11/2024									0.04

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.005
9/5/2024	
9/6/2024	
9/9/2024	<0.005
9/10/2024	
9/11/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
9/25/2020	385								
9/28/2020									
12/9/2020				415		273	277	197	
12/17/2020			249		179				
1/11/2021			249						
1/12/2021		207		471				222	
3/3/2021									
3/4/2021			256	474	170	309	309		
3/5/2021		236						270	
3/8/2021	388								
3/12/2021									
4/15/2021									556
9/9/2021									
9/10/2021			271						
9/13/2021	351	174			147	275			
9/14/2021				456			299	243	552
1/20/2022									475
1/21/2022	344								
1/24/2022				423		276	277	238	
1/25/2022					132				
1/26/2022		144							
1/27/2022			231						
6/6/2022									
9/8/2022	399								
9/13/2022				505					
9/14/2022						327		228	
9/15/2022			258				318		
9/16/2022		223			137				
9/19/2022									489
2/2/2023	356		252						
2/3/2023		159		495					464
2/6/2023						299			
2/7/2023					127		313	229	
9/6/2023	322								
9/7/2023									
9/8/2023		353							
9/11/2023			233		118				
9/12/2023						308			420
9/13/2023				472			296	233	
1/31/2024	340								
2/1/2024						299	337		
2/2/2024		353	222		112				
2/5/2024				449				235	374
9/5/2024	322								
9/9/2024					91.6	272	266	219	89.5
9/10/2024		371	256	457					
9/11/2024									

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			74.7
10/21/2019			55.3
9/24/2020			50.6
9/25/2020			
9/28/2020		211	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		225	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			46.5
4/15/2021			
9/9/2021			49.2
9/10/2021			
9/13/2021		189	
9/14/2021			
1/20/2022			50.3
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		185	
6/6/2022	97.7		
9/8/2022			45.8
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		234	
9/19/2022			
2/2/2023			52.1
2/3/2023			
2/6/2023	108		
2/7/2023		247	
9/6/2023			
9/7/2023	110		49.3
9/8/2023		233	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	127		49.4
2/2/2024			
2/5/2024		236	
9/5/2024			
9/9/2024			44.2
9/10/2024	104		
9/11/2024		238	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	87.9								
1/30/2019		292							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		302		334	103				
10/22/2019	56.5								
10/24/2019			8.6						
11/22/2019						619			
12/18/2019							481		
12/19/2019								533	
2/17/2020									242
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			2.9						
9/25/2020					107	344			
9/28/2020				287				419	
3/1/2021									
3/4/2021			4.9		113				
3/5/2021						497			
3/9/2021								488	
3/12/2021									
9/9/2021									
9/13/2021						321			
9/14/2021	73.2	268	2.5	326					
9/15/2021							384	478	551
9/16/2021					106				
1/18/2022									
1/20/2022	49.4		<1						
1/21/2022					106				
1/25/2022		240		363					
1/26/2022							305	477	531
1/27/2022						371			
1/28/2022									
9/7/2022									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/8/2022									
9/12/2022							394	508	
9/13/2022			10		109				677
9/14/2022	93.3								
9/16/2022		285		404		433			
1/31/2023							393	536	
2/1/2023									648
2/2/2023	50.1								
2/3/2023					106				
2/6/2023			1.8						
2/7/2023		276		402		435			
9/6/2023							531	555	639
9/7/2023	87.1								
9/11/2023		260		373					
9/12/2023			<1		95.7	449			
1/30/2024							557	550	
1/31/2024									667
2/1/2024	57	256		368	98.3				
2/5/2024			0.78 (J)			433			
9/4/2024							470	480	661
9/5/2024									
9/6/2024	56.9				94.1				
9/9/2024		227		346					
9/10/2024						474			
9/11/2024			7						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		49	2.7
5/11/2017		21	
5/15/2017			1
6/15/2017		16	0.86 (J)
7/11/2017			1.4
7/12/2017		10	
8/8/2017			1.5
10/24/2017		15	1.4
11/15/2017		3.8	
2/27/2018			0.54 (J)
3/8/2018		9.7	
7/10/2018			0.25 (J)
7/12/2018		8	
11/6/2018			<1 (J)
11/7/2018		12.8	
1/28/2019			
1/30/2019			
3/12/2019			0.35 (J)
3/13/2019		23.7	
10/15/2019			0.16 (J)
10/16/2019		15.1	
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
2/17/2020	150		
3/2/2020			<1
3/9/2020		9.5	
9/22/2020		13.5	<1
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		8.8	
9/9/2021		11.9	<1
9/13/2021			
9/14/2021			
9/15/2021	325		
9/16/2021			
1/18/2022			<1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	18.4		
1/27/2022			
1/28/2022		13.1	
9/7/2022			<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/8/2022		12	
9/12/2022			
9/13/2022	92.1		
9/14/2022			
9/16/2022			
1/31/2023	8.7		<1
2/1/2023		13.3	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	53.9		<1
9/7/2023		15.4	
9/11/2023			
9/12/2023			
1/30/2024	9.2	13.4	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<1
9/5/2024	155		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		11.5	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		400	200			44			
9/1/2016				390					240
9/2/2016									
9/6/2016					170		180		
9/7/2016								230	
12/6/2016		190	190			45			
12/7/2016				350	160		180		250
12/8/2016								240	
3/28/2017	17								
3/29/2017		360	200	150		81 (O)			250
3/30/2017					180		210	260	
5/11/2017									
5/12/2017	17								
6/15/2017									
6/16/2017	11								
7/11/2017	11								
7/12/2017		390	210	350	170	44	170	230	250
10/24/2017	9.6	410	210						
10/25/2017				400		42	180	240	270
11/15/2017	7.8	390			180				
2/27/2018	7.4	335	220	356		41			
2/28/2018					43.5		168	203	244
7/10/2018	7.2								
7/11/2018				344		40.6	154	234	249
11/6/2018	7.3	356	302						
11/7/2018				298	162	41.3	168	248	266
3/12/2019	7	297	275	284					
3/13/2019					179	41.2		268	299
3/14/2019							195		
10/15/2019	7.4	263	273	270					
10/16/2019					167	42.1			323
10/17/2019							146		
10/18/2019								222	
3/2/2020	8.5		264	181					
3/3/2020		213			157	45.5	148		292
3/4/2020								222	
9/22/2020	6.5		267	183		40.2			310
9/23/2020					134		146		
9/24/2020		204						259	
3/1/2021	5.2								
3/2/2021			250		131	42.6	148		324
3/3/2021				203				237	
3/4/2021		240							
9/8/2021	6.1								
9/9/2021			247	126	127	42.3	139		315
9/10/2021		271							
9/13/2021								222	
1/18/2022	6.3								
1/20/2022									
1/21/2022									
1/24/2022							127	225	
1/25/2022			250	111	116	44.4			288

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		241							
9/7/2022	7								
9/13/2022						41.2	145		
9/14/2022								268	388
9/15/2022		229	287	191	133				
9/20/2022									
1/31/2023	6.8								
2/1/2023					97.5	45.9			
2/2/2023		235					137		
2/6/2023			273	142				262	379
2/7/2023									
9/6/2023	7.2								
9/8/2023			256		98.7	43.1	126		369
9/11/2023		258		132					
9/13/2023								255	
1/30/2024	7.9								
1/31/2024					100				
2/1/2024			260						394
2/2/2024		336		134					
2/5/2024						44	124		
2/6/2024								261	
9/4/2024	9.9								
9/5/2024				148	94.8		123		376
9/9/2024			229						
9/10/2024						43.8		261	
9/11/2024		727							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		580	300
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		650	
12/8/2016			280
3/28/2017			
3/29/2017		640	
3/30/2017	360		270
5/11/2017	340		
5/12/2017			
6/15/2017	300		
6/16/2017			
7/11/2017	330		
7/12/2017		630	290
10/24/2017	260		
10/25/2017		610	290
11/15/2017			
2/27/2018	189		
2/28/2018		584	267
7/10/2018			
7/11/2018	162	501	277
11/6/2018	190		
11/7/2018		554	286
3/12/2019	159		
3/13/2019		539	312
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	134	426	255
10/18/2019			
3/2/2020			
3/3/2020	118		269
3/4/2020		434	
9/22/2020		408	
9/23/2020	122		
9/24/2020			269
3/1/2021			
3/2/2021	112	458	
3/3/2021			264
3/4/2021			
9/8/2021			
9/9/2021	110		238
9/10/2021		399	
9/13/2021			
1/18/2022			
1/20/2022	101		223
1/21/2022		406	
1/24/2022			
1/25/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		462	268
9/20/2022	98.4		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	96.4		
2/7/2023		517	285
9/6/2023			
9/8/2023			
9/11/2023		552	268
9/13/2023	95.5		
1/30/2024			
1/31/2024			267
2/1/2024	97.6	628	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			253
9/5/2024		698	
9/9/2024	89.1		
9/10/2024			
9/11/2024			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								450	300
8/31/2016							400		
9/1/2016					470	540			
9/2/2016	140								
9/7/2016				370					
12/6/2016							460	480	320
12/8/2016	260			350	400	540			
3/28/2017			680				380		300
3/29/2017	290							660	
3/30/2017		220				550			
3/31/2017				380	350				
5/12/2017		220	680						
6/15/2017		200	730						
7/11/2017			740				440	440	320
7/12/2017		220							
7/13/2017	300			370	270	500			
10/24/2017			930					430	430
10/25/2017	290			370			510		
10/26/2017		220			290	510			
11/15/2017			820						
2/27/2018			811				453	340	327
2/28/2018	278			350					
3/1/2018		209			245				
3/2/2018						456			
7/11/2018				366					344
7/12/2018	197	202			240	409			
11/6/2018			902				556	307	438
11/7/2018	320			439	143	432			
11/8/2018		292							
3/12/2019			987				484	295	362
3/14/2019	297	266		404	238	450			
10/15/2019			888						
10/16/2019							493	235	
10/17/2019				321	179				331
10/18/2019	254	203				336			
3/2/2020			840				455		
3/3/2020	242							195	247
3/4/2020		204		329	176	368			
9/22/2020			800	320			423		282
9/23/2020					111	313		178	
9/24/2020	262	215							
3/1/2021			840						
3/2/2021							412	152	266
3/3/2021	252	221		329	143	312			
9/9/2021		217							
9/10/2021	234		823		123	272	449		264
9/13/2021				285				145	
1/20/2022	221	211		281					
1/21/2022					135				
1/24/2022			816			265	434		
1/25/2022								134	
1/26/2022									245

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				326	150	309			
9/14/2022							505		
9/15/2022								134	
9/16/2022	265								
9/19/2022			925						274
9/20/2022		242							
2/1/2023				313					
2/3/2023			949		138	301			277
2/6/2023	235	262							
2/7/2023							577	118	
3/21/2023									
4/10/2023									
9/11/2023	236	275							
9/12/2023					119			134	
9/13/2023			852	294		268	576		
9/14/2023									
1/30/2024				294					
1/31/2024	224	279							
2/1/2024			824				539	138	
2/5/2024					118	258			
9/5/2024		303		356	136				
9/6/2024			708				558		
9/9/2024	211							103	
9/10/2024						248			
9/11/2024									281

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	436
4/10/2023	507
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	465
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	434
9/5/2024	
9/6/2024	
9/9/2024	404
9/10/2024	
9/11/2024	

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.001								
9/24/2020									
9/25/2020	<0.001								
9/28/2020									
12/9/2020				<0.001		<0.001	<0.001	<0.001	
12/17/2020			<0.001		<0.001				
1/11/2021			<0.001						
1/12/2021		<0.001		<0.001				<0.001	
3/3/2021									
3/4/2021			<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2021		<0.001						<0.001	
3/8/2021	<0.001								
3/12/2021									
4/15/2021									<0.001
9/9/2021									
9/10/2021			<0.001						
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<0.001	<0.001	<0.001
1/20/2022									<0.001
1/21/2022	<0.001								
1/24/2022				<0.001		<0.001	<0.001	<0.001	
1/25/2022					<0.001				
1/26/2022		<0.001							
1/27/2022			<0.001						
6/6/2022									
9/8/2022	<0.001								
9/13/2022				<0.001					
9/14/2022						<0.001		<0.001	
9/15/2022			<0.001				<0.001		
9/16/2022		<0.001			<0.001				
9/19/2022									<0.001
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					<0.001
2/6/2023						<0.001			
2/7/2023					<0.001		<0.001	<0.001	
9/6/2023	<0.001								
9/7/2023									
9/8/2023		<0.001							
9/11/2023			<0.001		<0.001				
9/12/2023						<0.001			<0.001
9/13/2023				0.00028 (J)			<0.001	<0.001	
1/31/2024	<0.001								
2/1/2024						<0.001	<0.001		
2/2/2024		<0.001	<0.001		<0.001				
2/5/2024				<0.001				<0.001	<0.001
9/5/2024	<0.001								
9/9/2024					<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2024		<0.001	<0.001	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
9/11/2024									

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00016 (J)	
9/24/2020			<0.001
9/25/2020			
9/28/2020		0.00023 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/15/2021			
9/9/2021			<0.001
9/10/2021			
9/13/2021		0.00024 (J)	
9/14/2021			
1/20/2022			<0.001
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.00032 (J)	
6/6/2022	<0.001		
9/8/2022			<0.001
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.00024 (J)	
9/19/2022			
2/2/2023			<0.001
2/3/2023			
2/6/2023	<0.001		
2/7/2023		0.00028 (J)	
9/6/2023			
9/7/2023	<0.001		<0.001
9/8/2023		0.00021 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.001		<0.001
2/2/2024			
2/5/2024		<0.001	
9/5/2024			
9/9/2024			<0.001
9/10/2024	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2024		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.001								
1/30/2019		<0.001							
8/27/2019									
8/28/2019									
9/11/2019	<0.001								
9/12/2019		<0.001							
9/18/2019			<0.001						
9/23/2019				9.9E-05 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.001		0.00011 (J)	7.2E-05 (J)				
10/22/2019	<0.001								
10/24/2019			<0.001						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.001						
8/14/2020					<0.001				
8/17/2020				<0.001		<0.001			
8/19/2020								<0.001	
9/22/2020									
9/24/2020			<0.001						
9/25/2020					<0.001	<0.001			
9/28/2020				<0.001				<0.001	
3/1/2021									
3/4/2021			<0.001		<0.001				
3/5/2021						0.0002 (J)			
3/9/2021								<0.001	
3/12/2021									
9/9/2021									
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/18/2022									
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						<0.001			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.0002 (J)	<0.001	
9/13/2022			<0.001		<0.001				<0.001
9/14/2022	<0.001								
9/16/2022		<0.001		<0.001		<0.001			
1/31/2023							0.00021 (J)	<0.001	
2/1/2023									<0.001
2/2/2023	<0.001								
2/3/2023					<0.001				
2/6/2023			<0.001						
2/7/2023		<0.001		<0.001		<0.001			
9/6/2023							<0.001	<0.001	<0.001
9/7/2023	<0.001								
9/11/2023		0.00021 (J)		<0.001					
9/12/2023			<0.001		<0.001	<0.001			
1/30/2024							<0.001	<0.001	
1/31/2024									<0.001
2/1/2024	<0.001	<0.001		<0.001	<0.001				
2/5/2024			<0.001			<0.001			
9/4/2024							<0.001	<0.001	<0.001
9/5/2024									
9/6/2024	<0.001				<0.001				
9/9/2024		<0.001		<0.001					
9/10/2024						<0.001			
9/11/2024			<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.001	<0.001
5/11/2017		<0.001	
5/15/2017			<0.001
6/15/2017		<0.001	<0.001
7/11/2017			<0.001
7/12/2017		<0.001	
8/8/2017			<0.001
10/24/2017		<0.001	<0.001
2/27/2018			<0.001
3/8/2018		<0.001	
7/10/2018			<0.001
7/12/2018		<0.001	
11/6/2018			<0.001
11/7/2018		<0.001	
1/28/2019			
1/30/2019			
8/27/2019			<0.001
8/28/2019		<0.001	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.001
10/16/2019		<0.001	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			7.8E-05 (J)
3/9/2020		<0.001	
8/11/2020			<0.001
8/13/2020		<0.001	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.001	<0.001
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.001
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.001	
9/9/2021		<0.001	<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001		
9/16/2021			
1/18/2022			<0.001
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.001		
1/27/2022			
1/28/2022		<0.001	
9/7/2022			<0.001
9/8/2022		<0.001	
9/12/2022			
9/13/2022	<0.001		
9/14/2022			
9/16/2022			
1/31/2023	<0.001		<0.001
2/1/2023		<0.001	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.001		0.00053 (J)
9/7/2023		<0.001	
9/11/2023			
9/12/2023			
1/30/2024	<0.001	<0.001	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			<0.001
9/5/2024	<0.001		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0004 (J)	<0.001			<0.001			
9/1/2016				<0.001					0.0005 (J)
9/2/2016									
9/6/2016					<0.001		<0.001		
9/7/2016								<0.001	
12/6/2016		0.0004 (J)	<0.001			<0.001			
12/7/2016				<0.001	<0.001		<0.001		0.0005 (J)
12/8/2016								<0.001	
3/28/2017	6E-05 (J)								
3/29/2017		0.0006 (J)	<0.001	8E-05 (J)		<0.001			0.0004 (J)
3/30/2017					<0.001		<0.001	0.0002 (J)	
5/11/2017									
5/12/2017	<0.001								
6/15/2017									
6/16/2017	<0.001								
7/11/2017	<0.001								
7/12/2017		0.0005 (J)	<0.001	9E-05 (J)	<0.001	<0.001	<0.001	0.0002 (J)	0.0005 (J)
10/24/2017	<0.001	0.0004 (J)	<0.001						
10/25/2017				9E-05 (J)		<0.001	<0.001	0.0002 (J)	0.0004 (J)
11/15/2017					<0.001				
2/27/2018	<0.001	<0.005	<0.001	<0.001		<0.001			
2/28/2018					<0.001		<0.001	0.00015 (J)	0.00049 (J)
7/10/2018	<0.001								
7/11/2018				<0.001		<0.001	<0.001	0.00017 (J)	0.0005 (J)
11/6/2018	<0.001	<0.001 (J)	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001 (J)	<0.001	<0.001 (J)
8/27/2019	<0.001	0.00036 (J)	<0.001	8.9E-05 (J)		<0.001		0.00018 (J)	
8/28/2019					<0.001		<0.001		0.00053 (J)
8/29/2019									
9/17/2019				9.7E-05 (J)					
10/15/2019	<0.001	0.00039 (J)	<0.001	9.1E-05 (J)					
10/16/2019					<0.001	<0.001			0.00053 (J)
10/17/2019							<0.001		
10/18/2019								0.00014 (J)	
3/2/2020	<0.001		<0.001	0.00013 (J)					
3/3/2020		0.00042 (J)			<0.001	<0.001	<0.001		0.0006 (J)
3/4/2020								0.00019 (J)	
8/11/2020	<0.001	0.00037 (J)	<0.001	<0.001		<0.001			0.00059 (J)
8/12/2020					<0.001				
8/13/2020							<0.001		
8/14/2020								0.00019 (J)	
9/22/2020	<0.001		<0.001	<0.001		<0.001			0.0005 (J)
9/23/2020					<0.001		<0.001		
9/24/2020		0.00034 (J)						0.00018 (J)	
3/1/2021	<0.001								
3/2/2021			<0.001		<0.001	<0.001	<0.001		0.00056 (J)
3/3/2021				<0.001				0.00017 (J)	
3/4/2021		0.00042 (J)							
9/8/2021	<0.001								
9/9/2021			<0.001	<0.001	<0.001	<0.001	<0.001		0.00056 (J)
9/10/2021		0.00027 (J)							
9/13/2021								<0.001	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<0.001								
1/20/2022									
1/21/2022									
1/24/2022							<0.001	<0.001	
1/25/2022			<0.001	<0.001	<0.001	<0.001			0.00057 (J)
1/26/2022		0.00033 (J)							
9/7/2022	<0.001								
9/13/2022						<0.001	<0.001		
9/14/2022								<0.001	0.00056 (J)
9/15/2022		<0.005	<0.001	<0.001	<0.001				
9/20/2022									
1/31/2023	<0.001								
2/1/2023					<0.001	<0.001			
2/2/2023		<0.005					<0.001		
2/6/2023			<0.001	<0.001				<0.001	0.00059 (J)
2/7/2023									
9/6/2023	<0.001								
9/8/2023			<0.001		<0.001	0.00056 (J)	<0.001		0.0005 (J)
9/11/2023		<0.005		0.00021 (J)					
9/13/2023								<0.001	
1/30/2024	<0.001								
1/31/2024					<0.001				
2/1/2024			<0.001						0.00057 (J)
2/2/2024		<0.005		<0.001					
2/5/2024						<0.001	<0.001		
2/6/2024								<0.001	
9/4/2024	<0.001								
9/5/2024				<0.001	<0.001		<0.001		0.00057 (J)
9/9/2024			<0.001						
9/10/2024						<0.001		<0.001	
9/11/2024		<0.005							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.01	<0.001
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0006 (J)	
12/8/2016			<0.001
3/28/2017			
3/29/2017		0.0006 (J)	
3/30/2017	<0.001		<0.001
5/11/2017	<0.001		
5/12/2017			
6/15/2017	<0.001		
6/16/2017			
7/11/2017	<0.001		
7/12/2017		0.0006 (J)	<0.001
10/24/2017	<0.001		
10/25/2017		0.0005 (J)	<0.001
11/15/2017			
2/27/2018	<0.001		
2/28/2018		<0.01	<0.001
7/10/2018			
7/11/2018	<0.001	<0.01	<0.001
11/6/2018	<0.001		
11/7/2018		<0.001 (J)	<0.001
8/27/2019	<0.001		
8/28/2019			
8/29/2019		0.00084 (J)	<0.001
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.001	0.00062 (J)	<0.001
10/18/2019			
3/2/2020			
3/3/2020	<0.001		<0.001
3/4/2020		0.0023 (J)	
8/11/2020	<0.001		
8/12/2020			
8/13/2020		0.0016 (J)	
8/14/2020			<0.001
9/22/2020		0.00055 (J)	
9/23/2020	<0.001		
9/24/2020			<0.001
3/1/2021			
3/2/2021	<0.001	0.0014 (J)	
3/3/2021			<0.001
3/4/2021			
9/8/2021			
9/9/2021	<0.001		<0.001
9/10/2021		0.00052 (J)	
9/13/2021			

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.001		<0.001
1/21/2022		<0.01	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.001 (J)	<0.001
9/20/2022	<0.001		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.001		
2/7/2023		0.0018 (J)	<0.001
9/6/2023			
9/8/2023			
9/11/2023		<0.01	<0.001
9/13/2023	<0.001		
1/30/2024			
1/31/2024			<0.001
2/1/2024	<0.001	<0.01	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			<0.001
9/5/2024		<0.01	
9/9/2024	<0.001		
9/10/2024			
9/11/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.001	<0.005
8/31/2016							<0.001		
9/1/2016					0.0002 (J)	<0.001			
9/2/2016	<0.001								
9/7/2016				<0.001					
12/6/2016							<0.001	<0.001	0.0006 (J)
12/8/2016	<0.001			<0.001	<0.001	<0.001			
3/28/2017			<0.001				0.0002 (J)		0.0007 (J)
3/29/2017	6E-05 (J)							0.0002 (J)	
3/30/2017		<0.001				9E-05 (J)			
3/31/2017				9E-05 (J)	0.0002 (J)				
5/12/2017		<0.001	<0.001						
6/15/2017		<0.001	<0.001						
7/11/2017			<0.001				<0.001	0.0001 (J)	0.0007 (J)
7/12/2017		<0.001							
7/13/2017	7E-05 (J)			9E-05 (J)	0.0002 (J)	8E-05 (J)			
10/24/2017			<0.001					0.0003 (J)	0.0006 (J)
10/25/2017	7E-05 (J)			9E-05 (J)			<0.001		
10/26/2017		<0.001			0.0003 (J)	9E-05 (J)			
2/27/2018			<0.001				<0.001	0.00033 (J)	0.00038 (J)
2/28/2018	<0.001			<0.001					
3/1/2018		<0.001			0.00032 (J)				
3/2/2018						<0.001			
7/11/2018				<0.001					<0.005
7/12/2018	<0.001	<0.001			0.00031 (J)	<0.001			
11/6/2018			<0.001				<0.001	<0.001 (J)	<0.005
11/7/2018	<0.001			<0.001	<0.001 (J)	<0.001			
11/8/2018		<0.001 (J)							
8/27/2019			<0.001				<0.001		0.00053 (J)
8/28/2019				6.9E-05 (J)				0.00022 (J)	
8/29/2019	6.4E-05 (J)	<0.001			0.00025 (J)	7.8E-05 (J)			
10/15/2019			7.3E-05 (J)						
10/16/2019							7.8E-05 (J)	0.00025 (J)	
10/17/2019				<0.001	0.00025 (J)				0.00076 (J)
10/18/2019	<0.001	<0.001				<0.001			
3/2/2020			<0.001				6.2E-05 (J)		
3/3/2020	7E-05 (J)							0.00023 (J)	0.00044 (J)
3/4/2020		<0.001		<0.001	0.00021 (J)	6.8E-05 (J)			
8/11/2020									<0.005
8/12/2020			<0.001		0.00018 (J)		<0.001	0.00023 (J)	
8/13/2020		<0.001		<0.001		<0.001			
8/14/2020	<0.001								
9/22/2020			<0.001	<0.001			<0.001		0.00043 (J)
9/23/2020					0.00026 (J)	<0.001		0.0002 (J)	
9/24/2020	<0.001	<0.001							
3/1/2021			<0.001						
3/2/2021							<0.001	0.00019 (J)	<0.005
3/3/2021	<0.001	<0.001		<0.001	0.00023 (J)	<0.001			
9/9/2021		<0.001							
9/10/2021	<0.001		<0.001		0.00036 (J)	<0.001	<0.001		0.0004 (J)
9/13/2021				<0.001				0.00019 (J)	
1/20/2022	<0.001	<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.00028 (J)				
1/24/2022			<0.001			<0.001	<0.001		
1/25/2022								0.00019 (J)	
1/26/2022									<0.005
9/13/2022				<0.001	0.00021 (J)	<0.001			
9/14/2022							<0.001		
9/15/2022								<0.001	
9/16/2022	<0.001								
9/19/2022			<0.001						<0.005
9/20/2022		<0.001							
2/1/2023				0.00028 (J)					
2/3/2023			<0.001		0.00022 (J)	<0.001			<0.005
2/6/2023	<0.001	<0.001							
2/7/2023							<0.001	<0.001	
9/11/2023	<0.001	<0.001							
9/12/2023					0.00019 (J)			<0.001	
9/13/2023			<0.001	<0.001		<0.001	<0.001		
9/14/2023									
1/30/2024				<0.001					
1/31/2024	<0.001	<0.001							
2/1/2024			<0.001				<0.001	<0.001	
2/5/2024					<0.001	<0.001			
9/5/2024		<0.001		<0.001	0.00047 (J)				
9/6/2024			<0.001				<0.001		
9/9/2024	<0.001							<0.001	
9/10/2024						<0.001			
9/11/2024									<0.005

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.001
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.001
9/5/2024	
9/6/2024	
9/9/2024	<0.001
9/10/2024	
9/11/2024	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
9/25/2020	724								
9/28/2020									
12/9/2020				862		564	573	490	
12/17/2020			449		340				
1/11/2021			442						
1/12/2021		405		836				500	
3/3/2021									
3/4/2021			459	818	321	525	569		
3/5/2021		462						634	
3/8/2021	660								
3/12/2021									
4/15/2021									982
9/9/2021									
9/10/2021			474						
9/13/2021	636	343			296	567			
9/14/2021				776			576	586	882
1/20/2022									816
1/21/2022	638								
1/24/2022				806		552	502	566	
1/25/2022					295				
1/26/2022		290							
1/27/2022			459						
6/6/2022									
9/8/2022	606								
9/13/2022				832					
9/14/2022						582		470	
9/15/2022			437				540		
9/16/2022		365			240				
9/19/2022									867
2/2/2023	595		466						
2/3/2023		313		842					803
2/6/2023						608			
2/7/2023					246		563	489	
9/6/2023	641								
9/7/2023									
9/8/2023		668							
9/11/2023			442		304				
9/12/2023						560			743
9/13/2023				839			607	506	
1/31/2024	582								
2/1/2024						580	629		
2/2/2024		649	414		252				
2/5/2024				830				586	710
9/5/2024	581								
9/9/2024					216	563	575	528	654
9/10/2024		646	474	825					
9/11/2024									

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			287
10/21/2019			180
9/24/2020			170
9/25/2020			
9/28/2020		320	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		303	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			172
4/15/2021			
9/9/2021			174
9/10/2021			
9/13/2021		321	
9/14/2021			
1/20/2022			187
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		344	
6/6/2022	307		
9/8/2022			160
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		353	
9/19/2022			
2/2/2023			197
2/3/2023			
2/6/2023	392		
2/7/2023		379	
9/6/2023			
9/7/2023	324		181
9/8/2023		402	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	361		205
2/2/2024			
2/5/2024		421	
9/5/2024			
9/9/2024			187
9/10/2024	324		
9/11/2024		411	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	204								
1/30/2019		601							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		617		458	214				
10/22/2019	178								
10/24/2019			106						
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			124						
9/25/2020					244	624			
9/28/2020				454				686	
3/1/2021									
3/4/2021			128		234				
3/5/2021						798			
3/9/2021								790	
3/12/2021									
9/9/2021									
9/13/2021						572			
9/14/2021	170	490	94	536					
9/15/2021							612	812	892
9/16/2021					223				
1/18/2022									
1/20/2022	177		129						
1/21/2022					236				
1/25/2022		482		668					
1/26/2022							572	766	930
1/27/2022						654			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							696	884	
9/13/2022			113		210				1050
9/14/2022	206								

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/16/2022		498		468		564			
1/31/2023							688	898	
2/1/2023									1170
2/2/2023	198								
2/3/2023					214				
2/6/2023			92						
2/7/2023		497		611		685			
9/6/2023							1020	1020	1190
9/7/2023	186								
9/11/2023		484		612					
9/12/2023			98		204	752			
1/30/2024							952	992	
1/31/2024									1150
2/1/2024	185	498		641	212				
2/5/2024			122			802			
9/4/2024							953	930	1320
9/5/2024									
9/6/2024	187				213				
9/9/2024		437		614					
9/10/2024						770			
9/11/2024			107						

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		202	39
5/11/2017		241	
5/15/2017			88
6/15/2017		251	65
7/11/2017			25
7/12/2017		218	
8/8/2017			53
10/24/2017		671 (O)	49
11/15/2017		241	
2/27/2018			43
3/8/2018		213	
7/10/2018			80
7/12/2018		198	
11/6/2018			65
11/7/2018		200	
1/28/2019			
1/30/2019			
3/12/2019			43
3/13/2019		201	
10/15/2019			70
10/16/2019		126	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			52
3/9/2020		171	
9/22/2020		142	46
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			25
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		124	
9/9/2021		131	53
9/13/2021			
9/14/2021			
9/15/2021	524		
9/16/2021			
1/18/2022			54
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	139		
1/27/2022			
1/28/2022		155	
9/7/2022			34
9/8/2022		129	
9/12/2022			
9/13/2022	267		
9/14/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/16/2022			
1/31/2023	147		163
2/1/2023		116	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	207		46
9/7/2023		123	
9/11/2023			
9/12/2023			
1/30/2024	154	130	
1/31/2024			
2/1/2024			
2/5/2024			
9/4/2024			61
9/5/2024	370		
9/6/2024			
9/9/2024			
9/10/2024			
9/11/2024		122	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		525	307			106			
9/1/2016				568					396
9/2/2016									
9/6/2016					296		304		
9/7/2016								353	
12/6/2016		595	358			138			
12/7/2016				559	270		287		400
12/8/2016								408	
3/28/2017	90								
3/29/2017		525	300	550		102			390
3/30/2017					287		312	338	
5/11/2017									
5/12/2017	92								
6/15/2017									
6/16/2017	100								
7/11/2017	59								
7/12/2017		598	382	594	312	118	490 (O)	417	360
10/24/2017	117	353	342						
10/25/2017				571		88	290	343	423
11/15/2017	90	582			325				
2/27/2018	79	542	393	582		99			
2/28/2018					84		313	364	440
7/10/2018	88								
7/11/2018				593		119	320	393	457
11/6/2018	85	512	412						
11/7/2018				504	314	113	325	408	461
3/12/2019	74	436	433	465					
3/13/2019					656	280		802	113
3/14/2019							340		
10/15/2019	89	447	461	472					
10/16/2019					296	104			500
10/17/2019							319		
10/18/2019								403	
3/2/2020	67		458	338					
3/3/2020		382			263	123	323		526
3/4/2020								414	
9/22/2020	74		481	338		105			513
9/23/2020					278		317		
9/24/2020		283						411	
3/1/2021	62								
3/2/2021			456		256	105	272		513
3/3/2021				325				384	
3/4/2021		430							
9/8/2021	75								
9/9/2021			433	275	246	99	292		480
9/10/2021		474							
9/13/2021								424	
1/18/2022	76								
1/20/2022									
1/21/2022									
1/24/2022							294	426	
1/25/2022			465	258	256	120			694

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		425							
9/7/2022	82								
9/13/2022						80	289		
9/14/2022								434	572
9/15/2022		280	414	377	216				
9/20/2022									
1/31/2023	87								
2/1/2023					216	116			
2/2/2023		390					288		
2/6/2023			481	251				403	600
2/7/2023									
9/6/2023	80								
9/8/2023			451		217	156	274		634
9/11/2023		436		302					
9/13/2023								480	
1/30/2024	86								
1/31/2024					216				
2/1/2024			463						656
2/2/2024		548		274					
2/5/2024						127	288		
2/6/2024								477	
9/4/2024	97								
9/5/2024				331	211		283		683
9/9/2024			444						
9/10/2024						117		476	
9/11/2024		1190							

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		1100	459
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		930	
12/8/2016			491
3/28/2017			
3/29/2017		923	
3/30/2017	580		436
5/11/2017	573		
5/12/2017			
6/15/2017	626		
6/16/2017			
7/11/2017	542		
7/12/2017		956	505
10/24/2017	523		
10/25/2017		854	474
11/15/2017			
2/27/2018	401		
2/28/2018		888	480
7/10/2018			
7/11/2018	334	826	485
11/6/2018	334		
11/7/2018		834	516
3/12/2019	297		
3/13/2019		639	486
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	302	751	498
10/18/2019			
3/2/2020			
3/3/2020	277		490
3/4/2020		761	
9/22/2020		724	
9/23/2020	267		
9/24/2020			494
3/1/2021			
3/2/2021	241	742	
3/3/2021			459
3/4/2021			
9/8/2021			
9/9/2021	260		396
9/10/2021		678	
9/13/2021			
1/18/2022			
1/20/2022	238		451
1/21/2022		702	
1/24/2022			
1/25/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		618	440
9/20/2022	230		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	226		
2/7/2023		848	498
9/6/2023			
9/8/2023			
9/11/2023		960	519
9/13/2023	212		
1/30/2024			
1/31/2024			503
2/1/2024	220	1050	
2/2/2024			
2/5/2024			
2/6/2024			
9/4/2024			537
9/5/2024		1220	
9/9/2024	227		
9/10/2024			
9/11/2024			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								693	414
8/31/2016							524		
9/1/2016					704	845			
9/2/2016	502								
9/7/2016				611					
12/6/2016							690	727	449
12/8/2016	464			535	587	777			
3/28/2017			1160				545		404
3/29/2017	462							654	
3/30/2017		380				775			
3/31/2017				661	545				
5/12/2017		438	1230						
6/15/2017		458	1290						
7/11/2017			1160				612	679	436
7/12/2017		461							
7/13/2017	492			641	441	789			
10/24/2017			229					468	599
10/25/2017	477			626			650		
10/26/2017		446			444	753			
11/15/2017			1330						
2/27/2018			1380				698	520	482
2/28/2018	476			616					
3/1/2018		454			435				
3/2/2018						704			
7/11/2018				638					532
7/12/2018	486	432			372	705			
11/6/2018			1480				809	456	554
11/7/2018	511			626	348	678			
11/8/2018		450							
3/12/2019			1490				711	438	493
3/14/2019	491	453		630	378	625			
10/15/2019			1520						
10/16/2019							702	374	
10/17/2019				612	327				550
10/18/2019	480	448				593			
3/2/2020			1540				759		
3/3/2020	452							369	444
3/4/2020		408		721	334	630			
9/22/2020			1400	547			716		461
9/23/2020					229	575		333	
9/24/2020	455	456							
3/1/2021			1140						
3/2/2021							730	291	449
3/3/2021	442	425		531	228	521			
9/9/2021		455							
9/10/2021	468		1520		274	532	792		466
9/13/2021				508				306	
1/20/2022	434	453		504					
1/21/2022					289				
1/24/2022			1520			500	810		
1/25/2022								281	
1/26/2022									409

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				540	277	527			
9/14/2022							850		
9/15/2022								234	
9/16/2022	462								
9/19/2022			1670						456
9/20/2022		511							
2/1/2023				541					
2/3/2023			1630		259	527			437
2/6/2023	427	532							
2/7/2023							939	223	
3/21/2023									
4/10/2023									
9/11/2023	460	582							
9/12/2023					218			251	
9/13/2023			1520	545		473	1020		
9/14/2023									
1/30/2024				551					
1/31/2024	423	564							
2/1/2024			1450				948	272	
2/5/2024					253	496			
9/5/2024		632		522	324				
9/6/2024			1290				977		
9/9/2024	443							241	
9/10/2024						469			
9/11/2024									458

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 11:48 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	753
4/10/2023	908
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	853
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	864
9/5/2024	
9/6/2024	
9/9/2024	879
9/10/2024	
9/11/2024	

FIGURE B.

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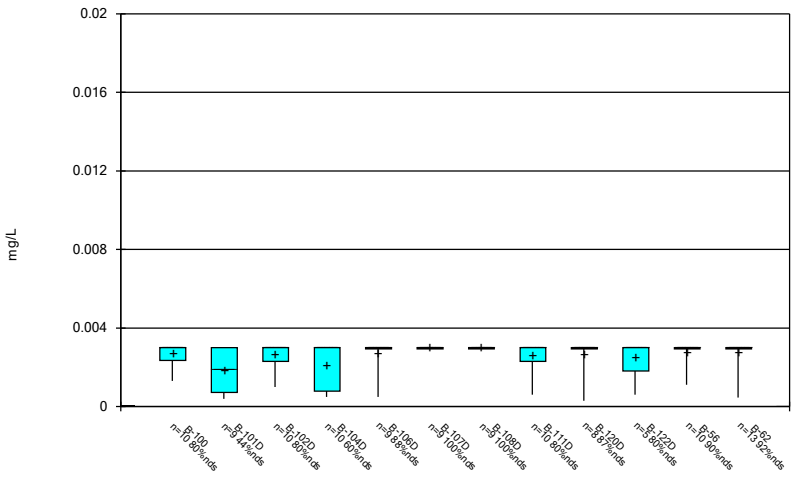
Box & Whiskers Plot



Constituent: Antimony Analysis Run 12/4/2024 11:49 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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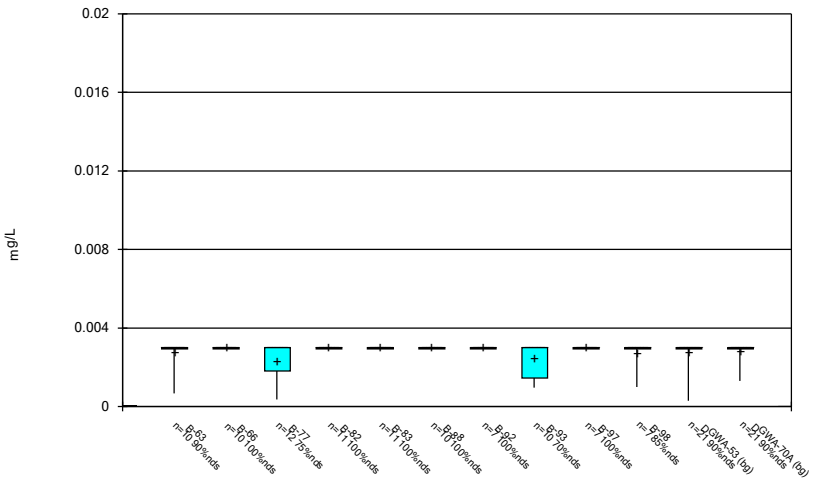
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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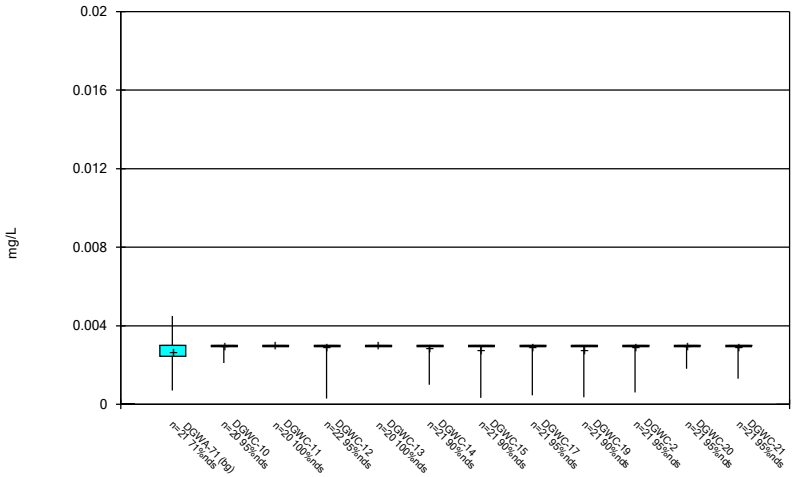
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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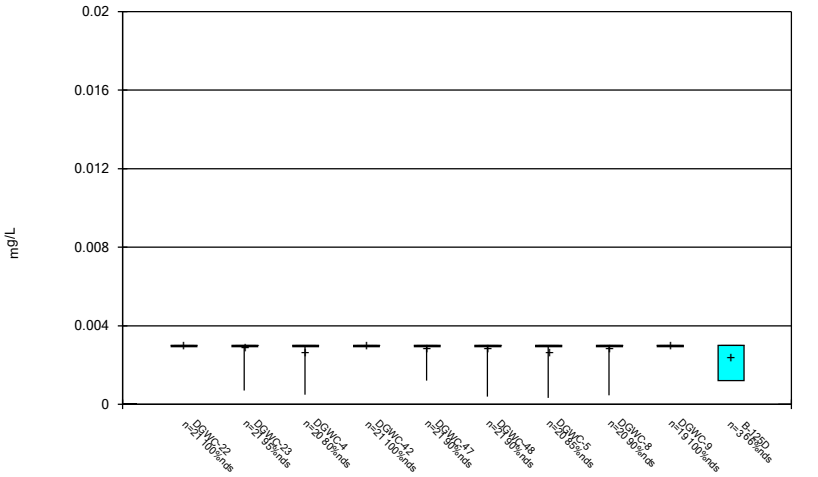
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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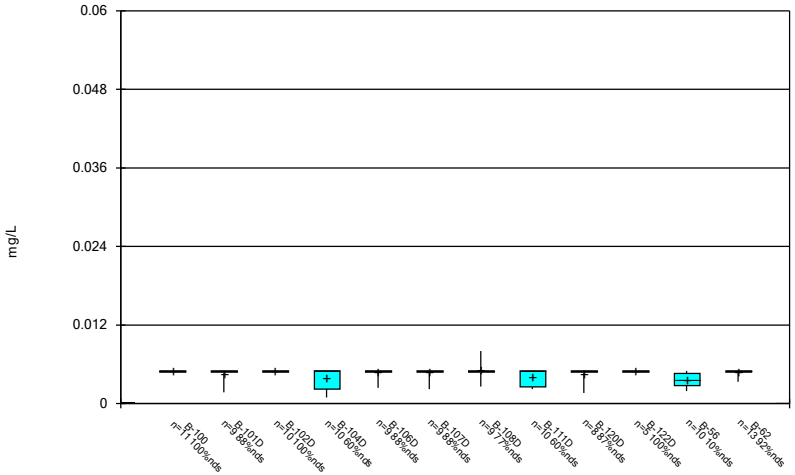
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 12/4/2024 11:49 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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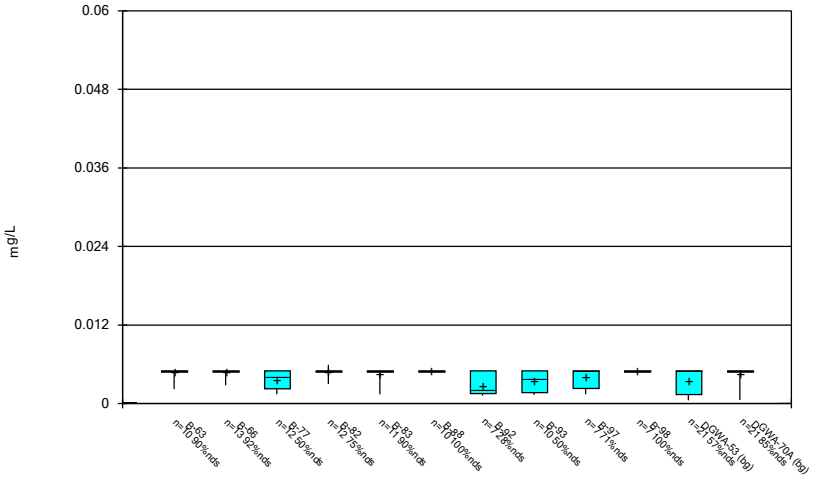
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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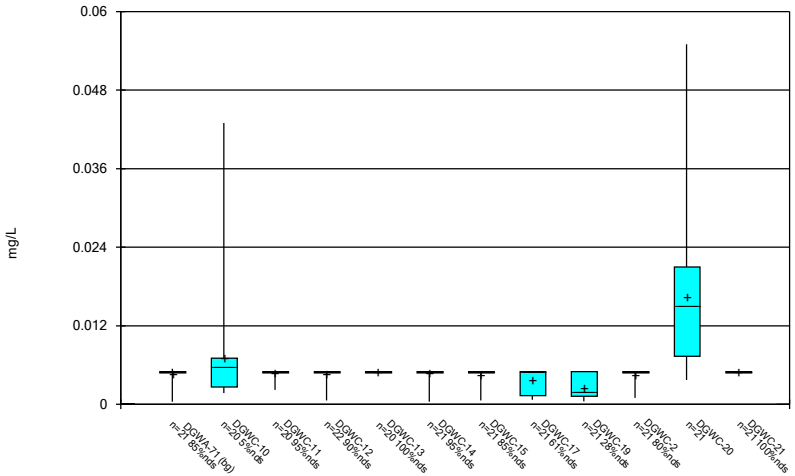
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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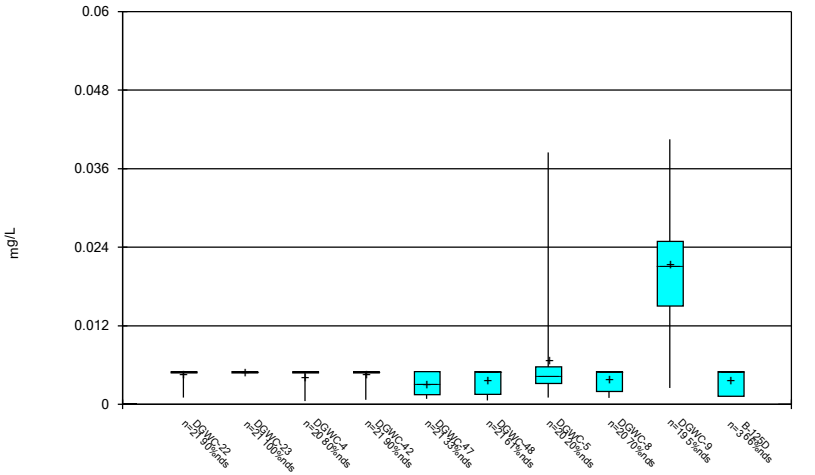
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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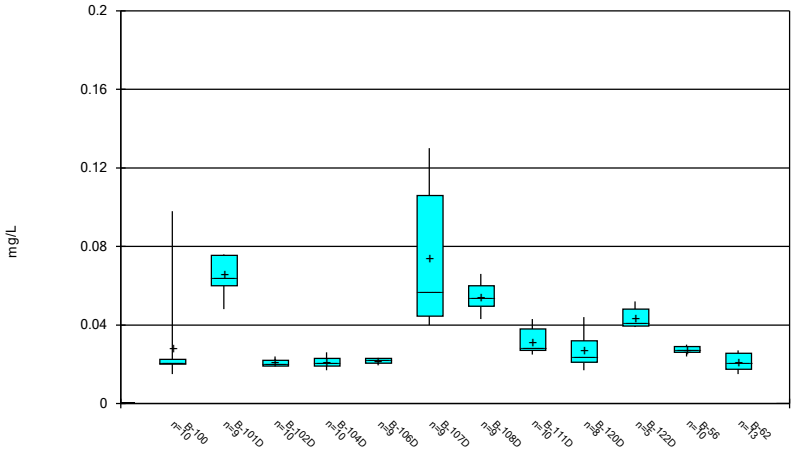
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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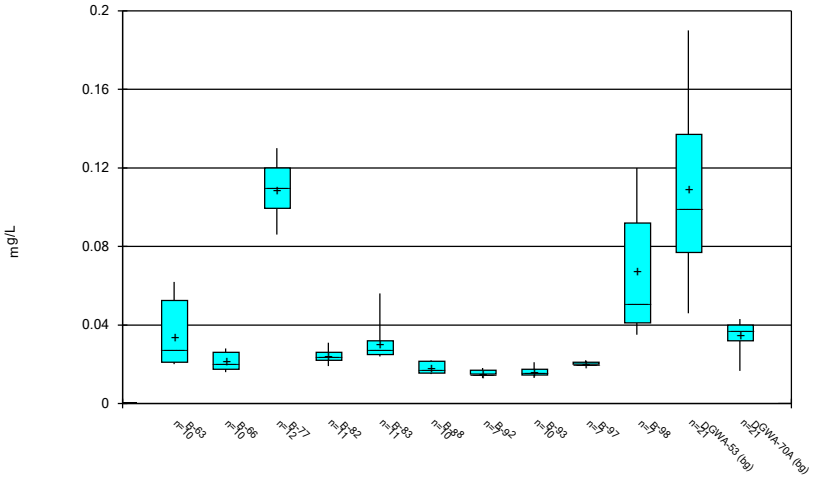
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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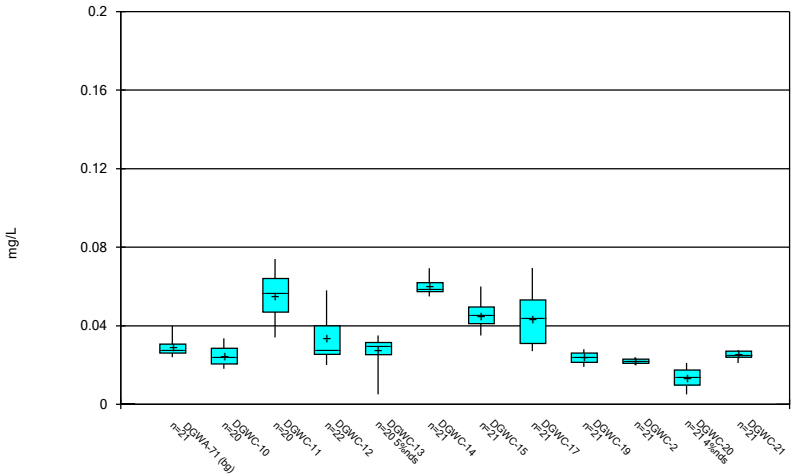
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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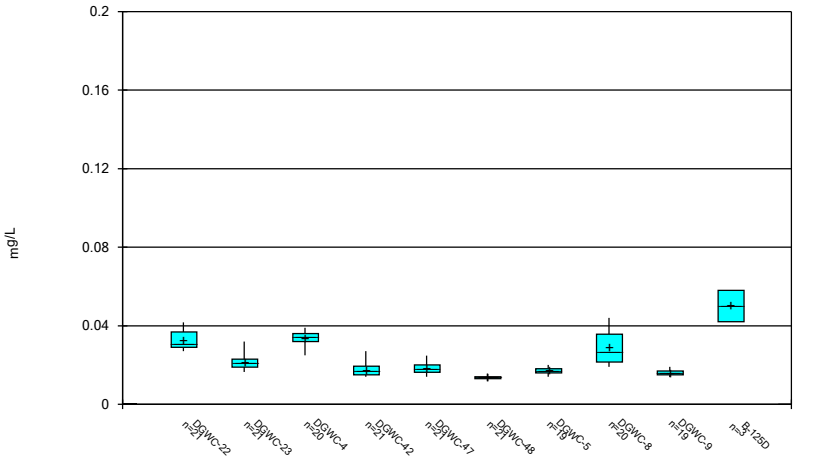
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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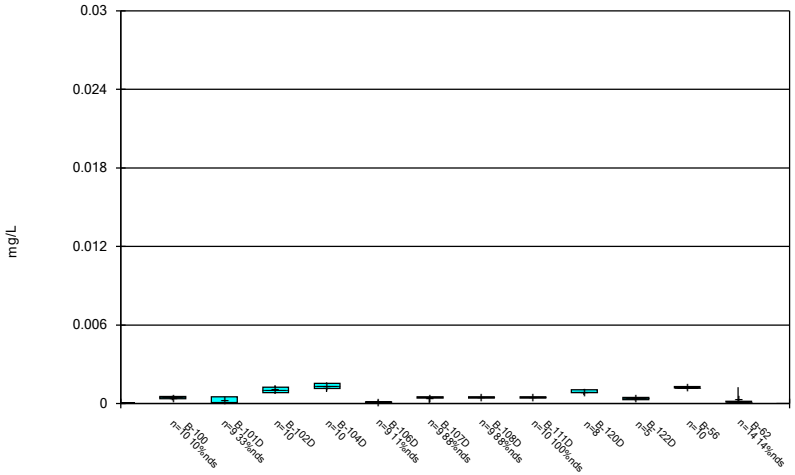
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 12/4/2024 11:50 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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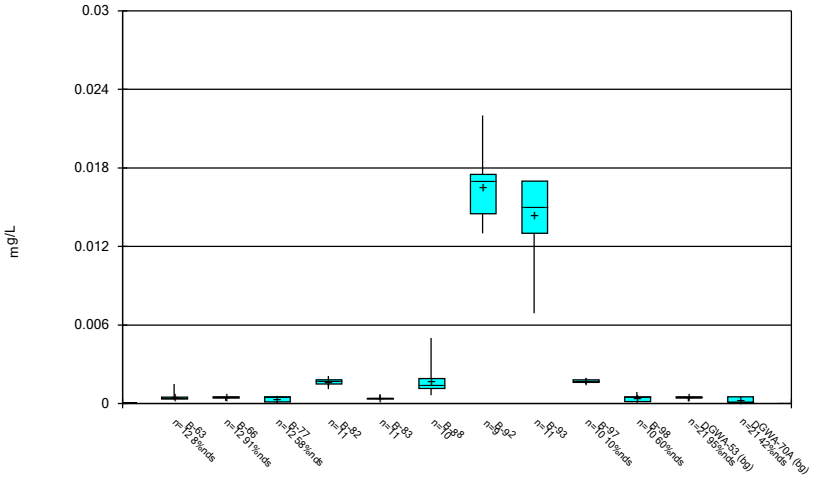
Box & Whiskers Plot



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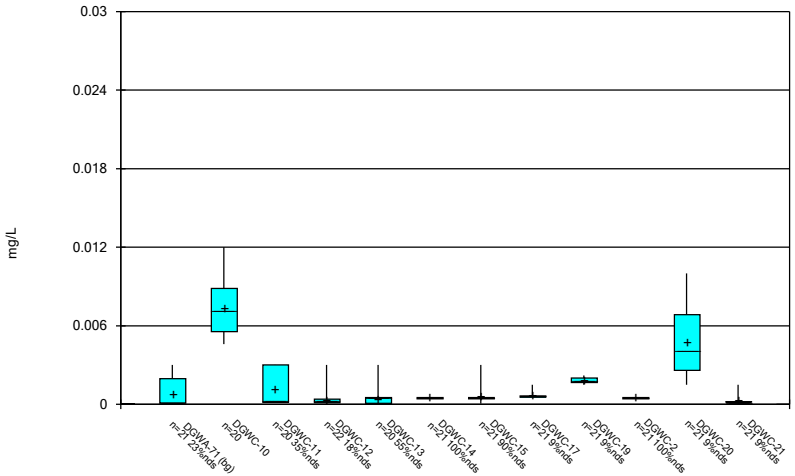
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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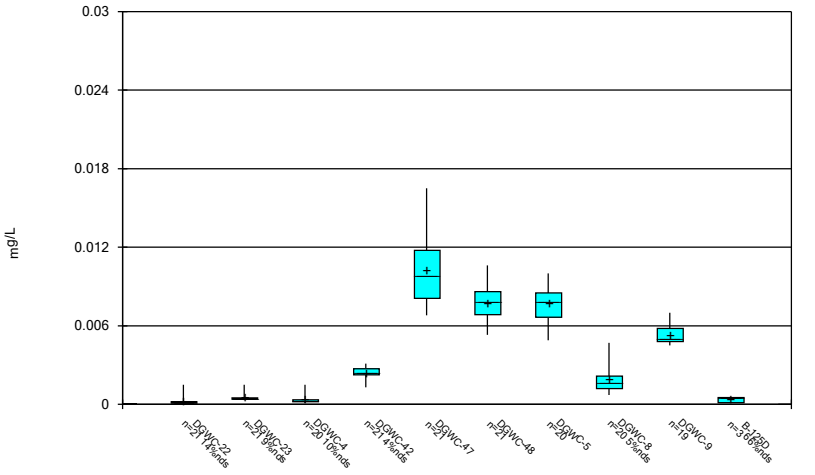
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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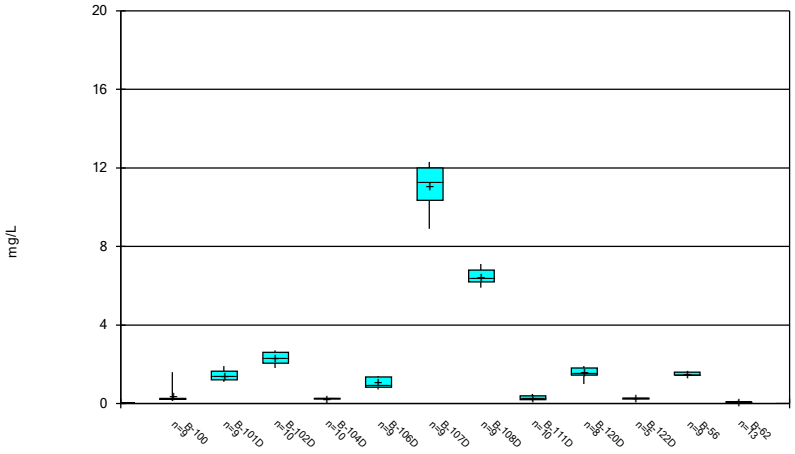
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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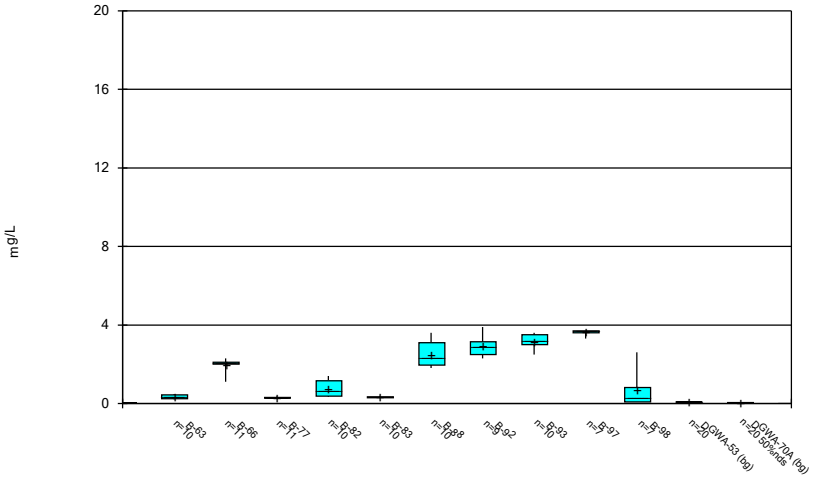
Box & Whiskers Plot



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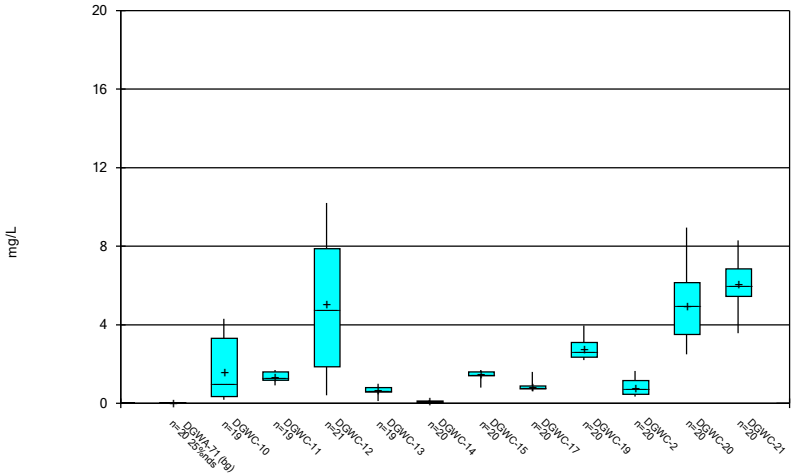
Box & Whiskers Plot



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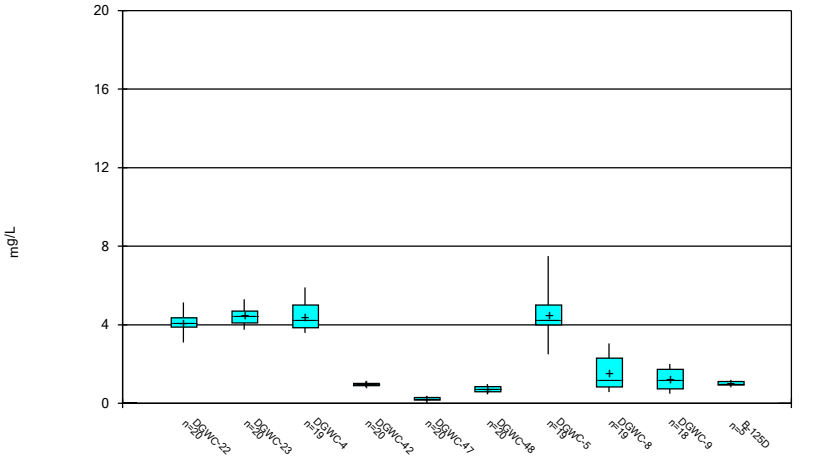
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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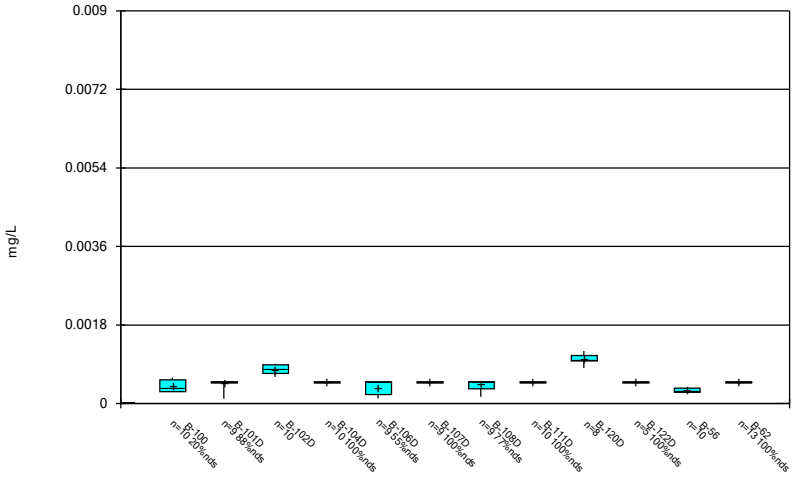
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/4/2024 11:50 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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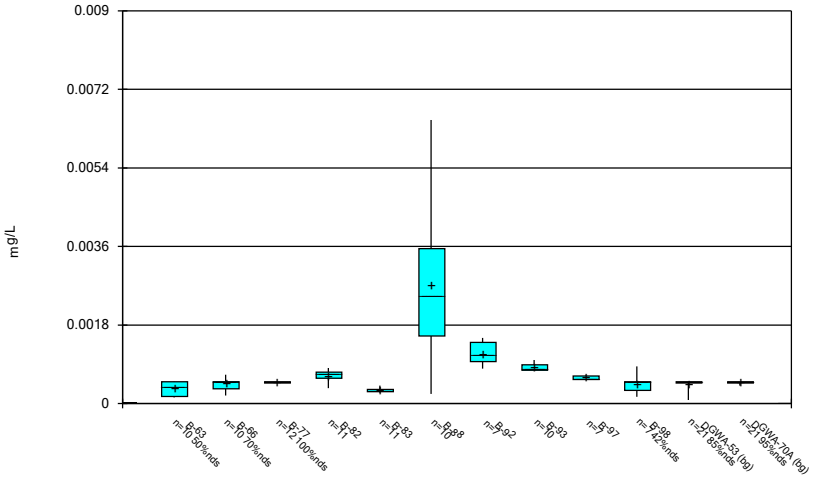
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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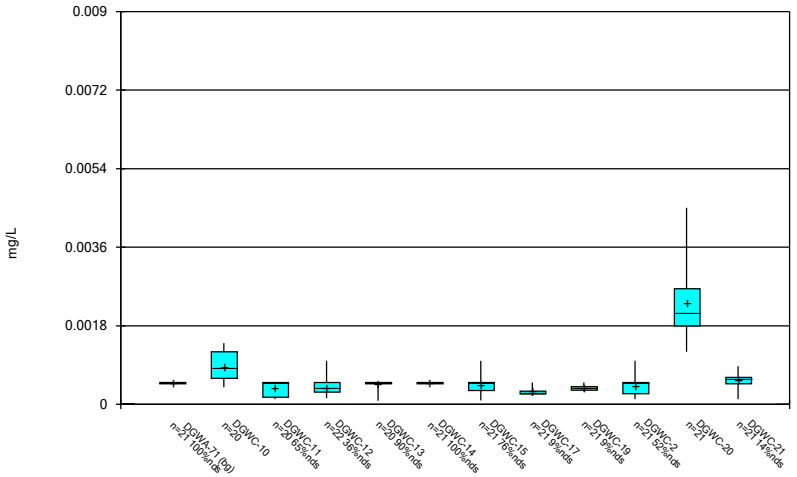
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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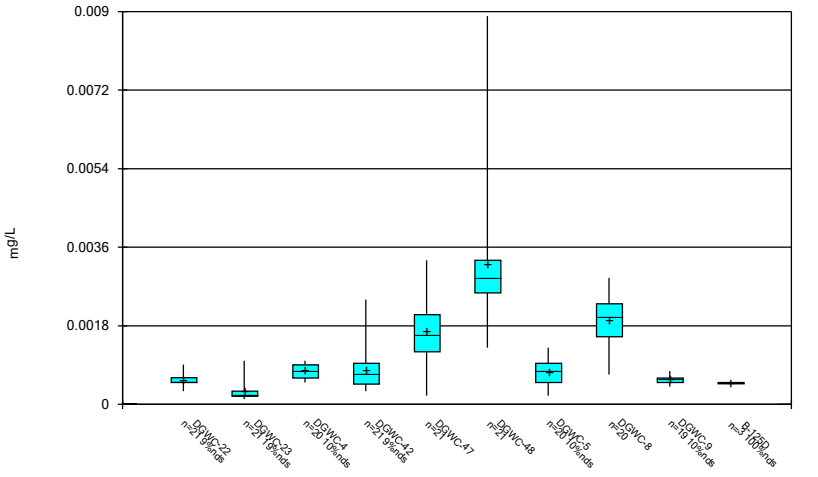
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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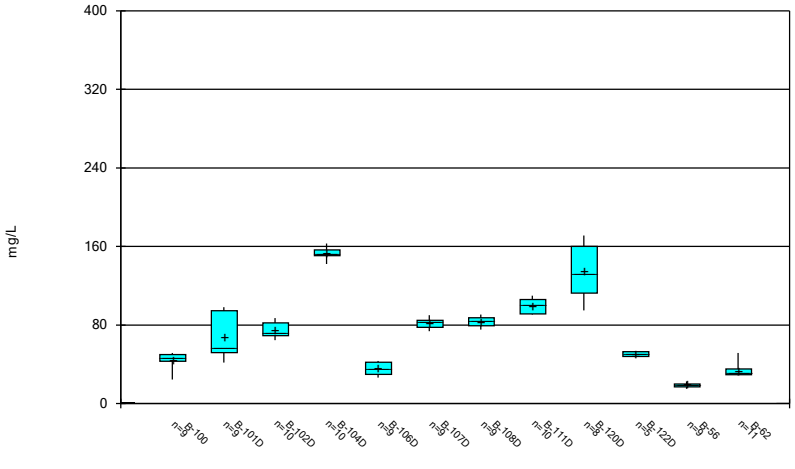
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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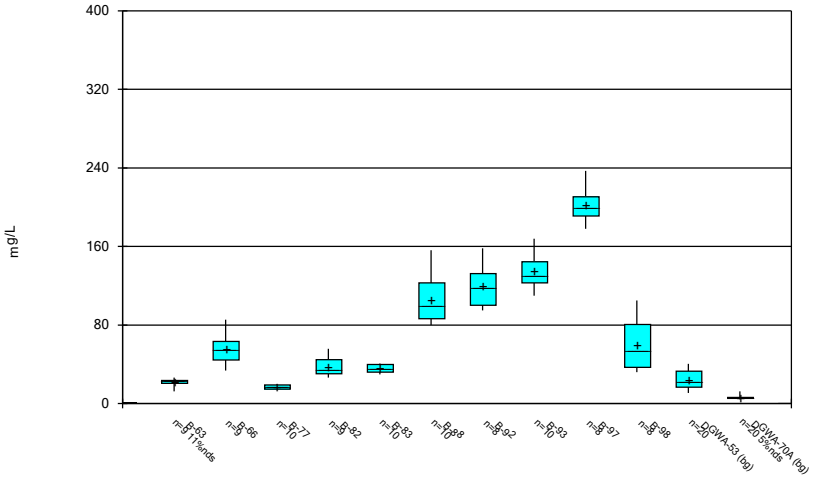
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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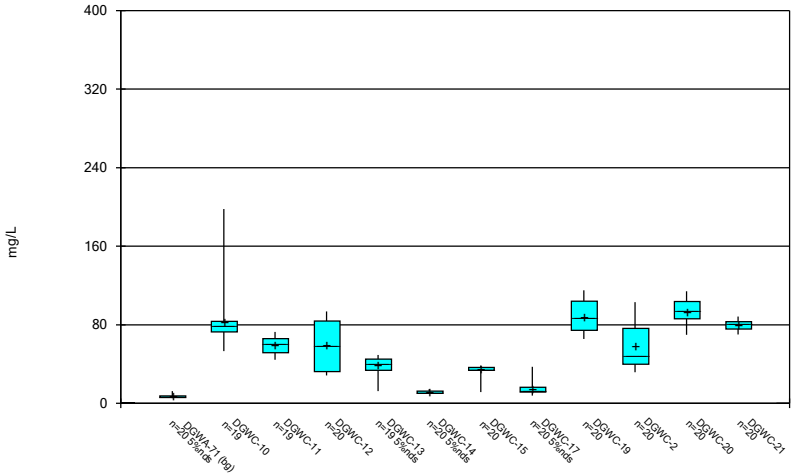
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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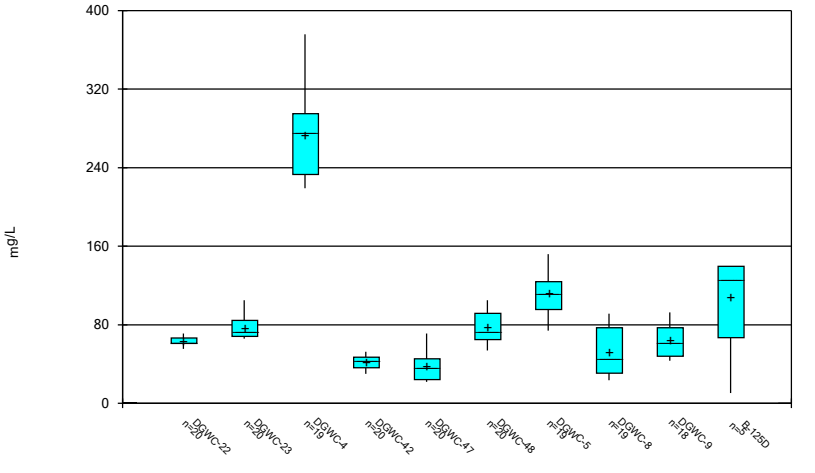
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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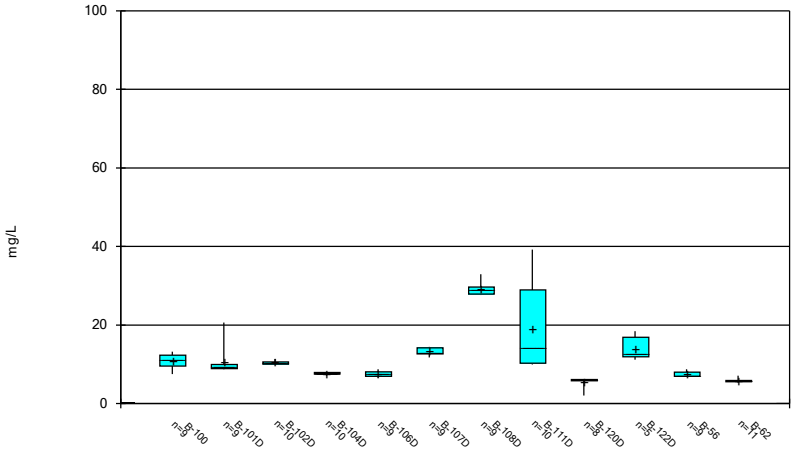
Box & Whiskers Plot



Constituent: Chloride Analysis Run 12/4/2024 11:50 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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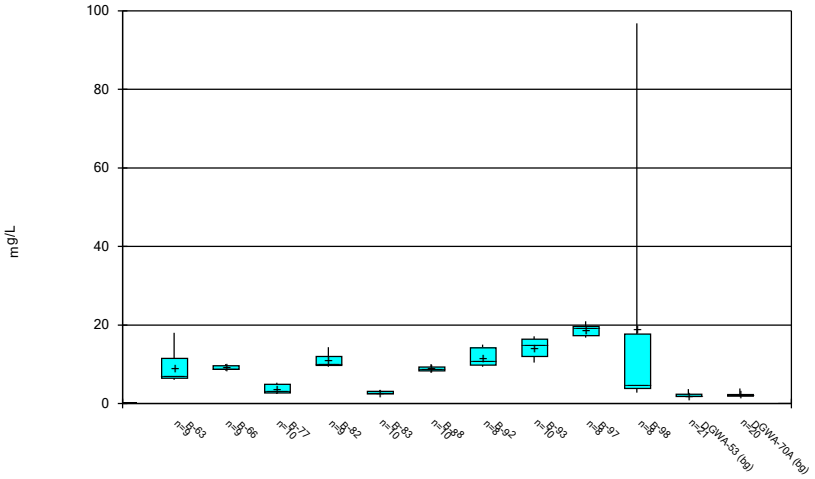
Box & Whiskers Plot



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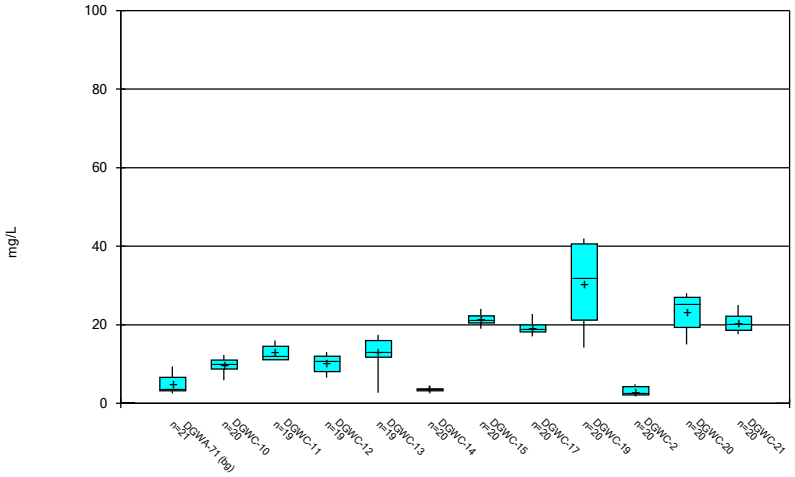
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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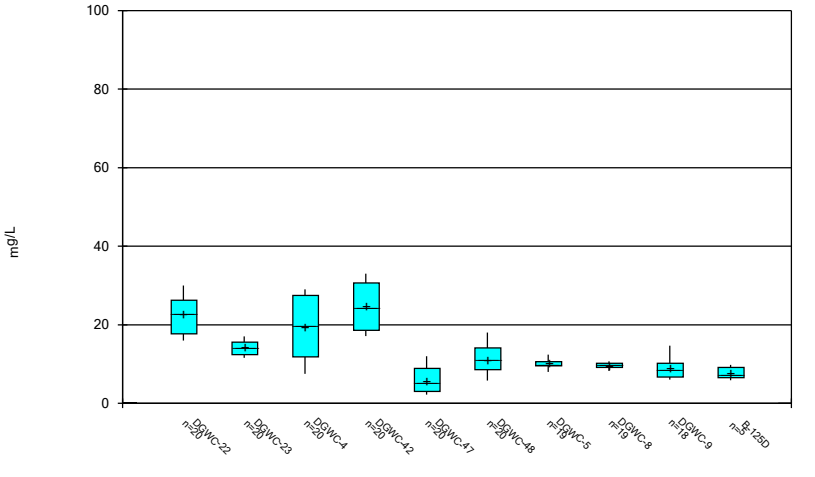
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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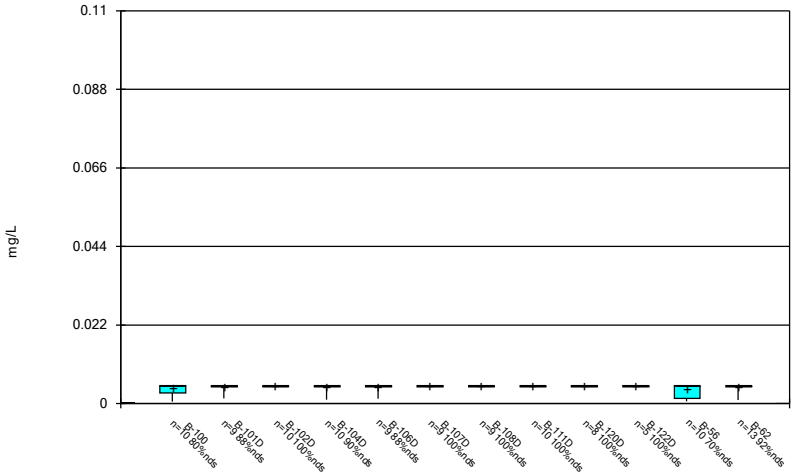
Box & Whiskers Plot



Constituent: Chromium Analysis Run 12/4/2024 11:50 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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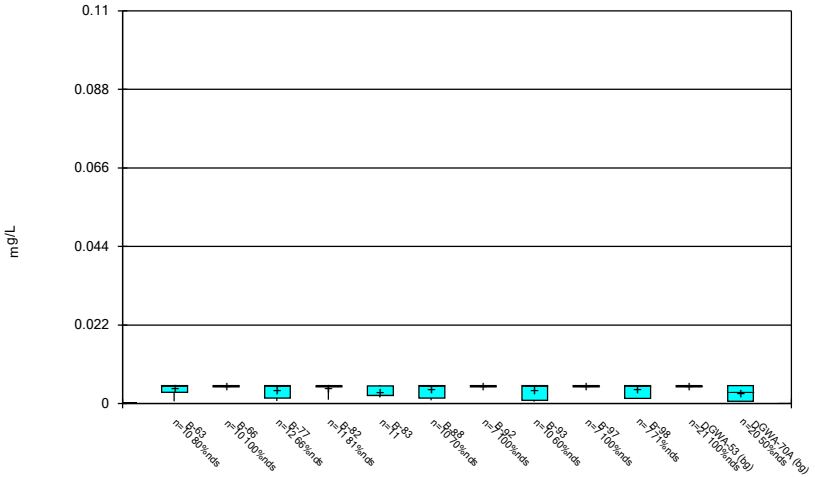
Box & Whiskers Plot



Constituent: Chromium Analysis Run 12/4/2024 11:50 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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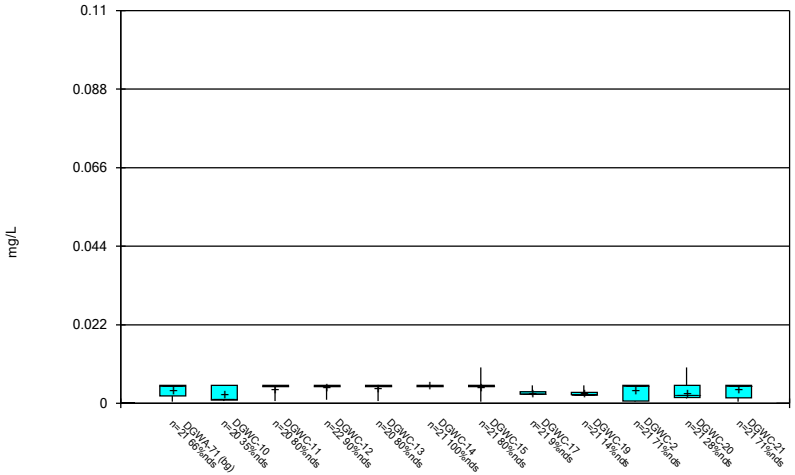
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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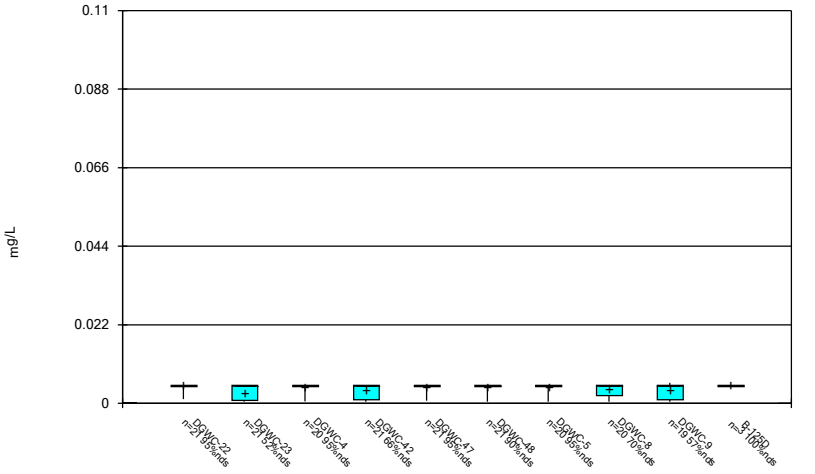
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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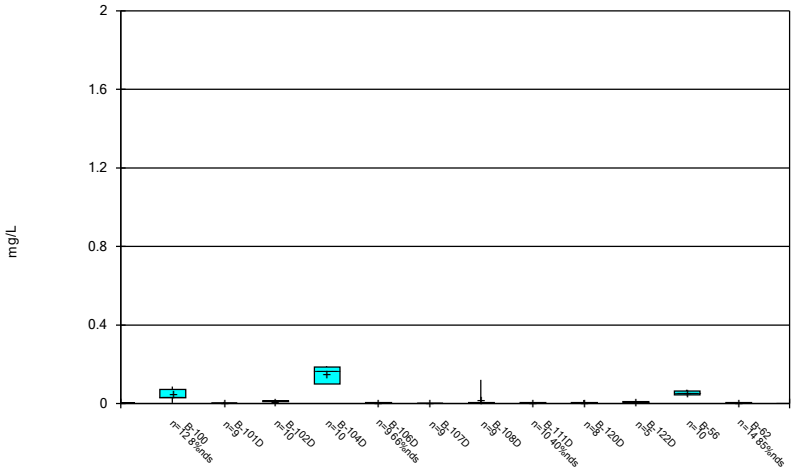
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 12/4/2024 11:50 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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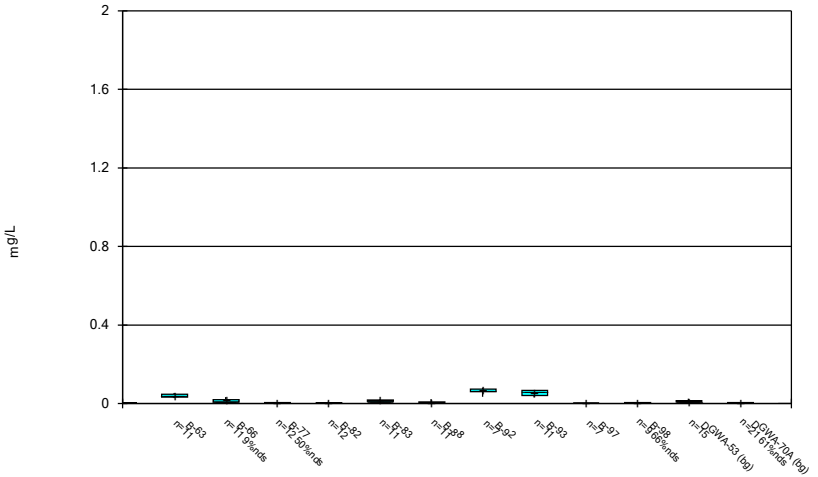
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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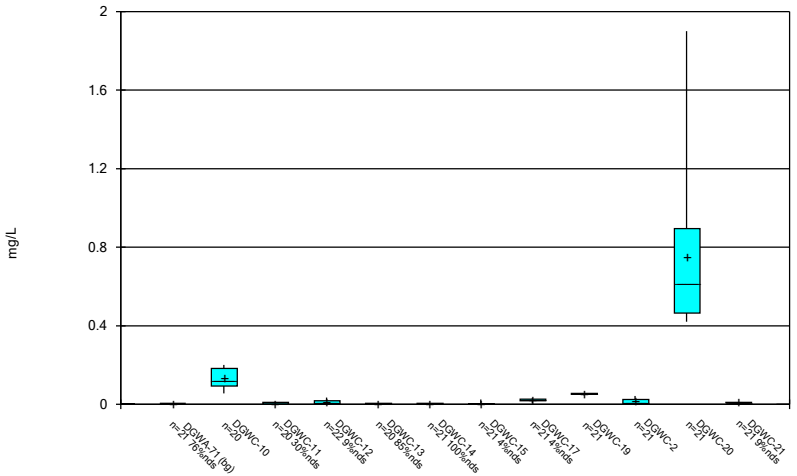
Box & Whiskers Plot



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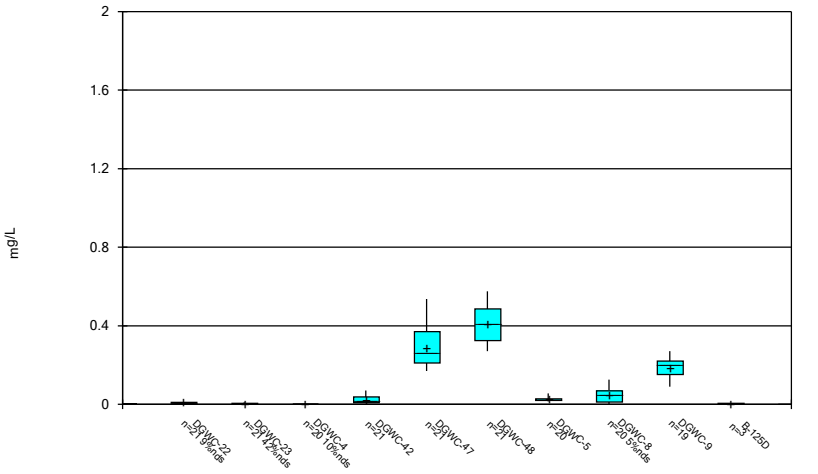
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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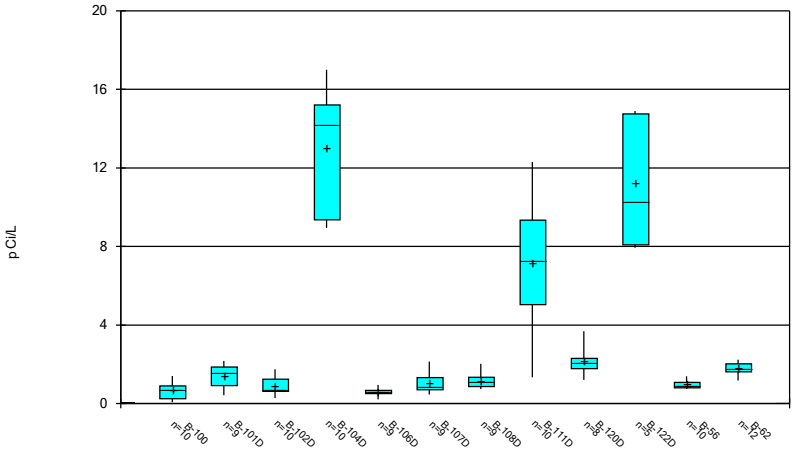
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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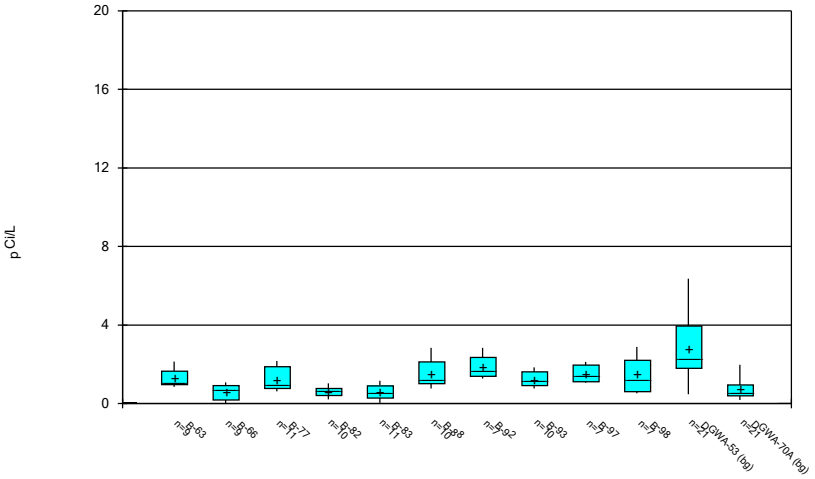
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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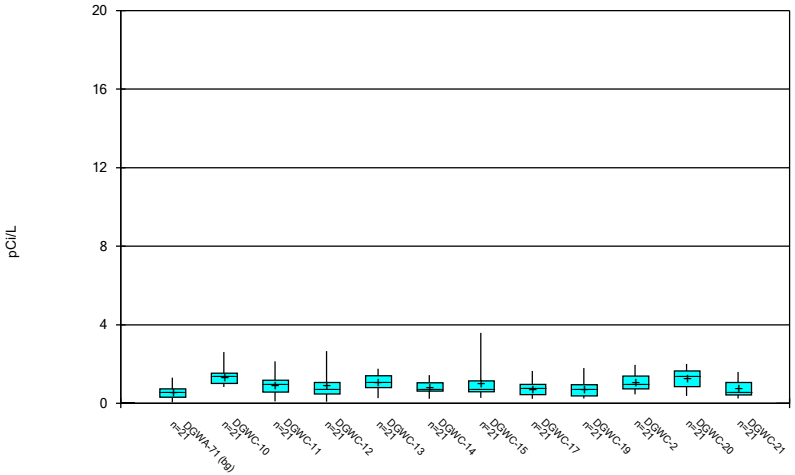
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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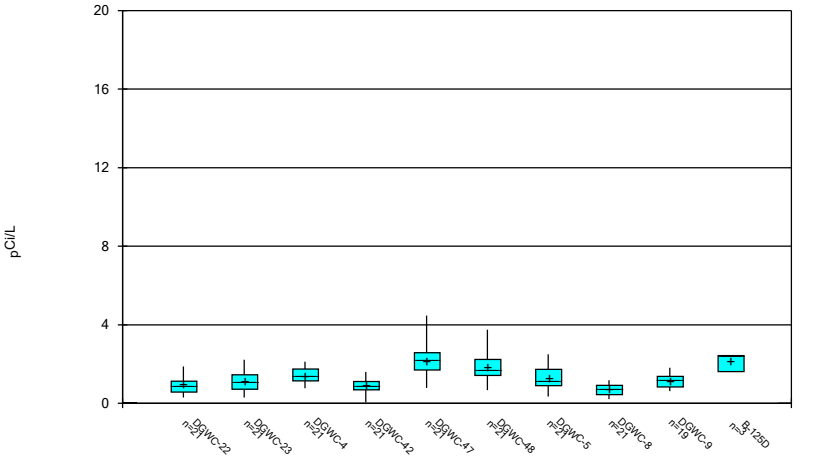
Box & Whiskers Plot



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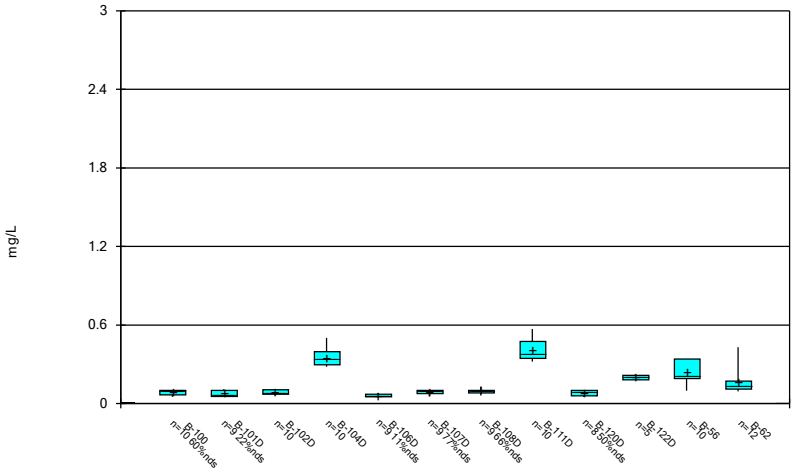
Box & Whiskers Plot



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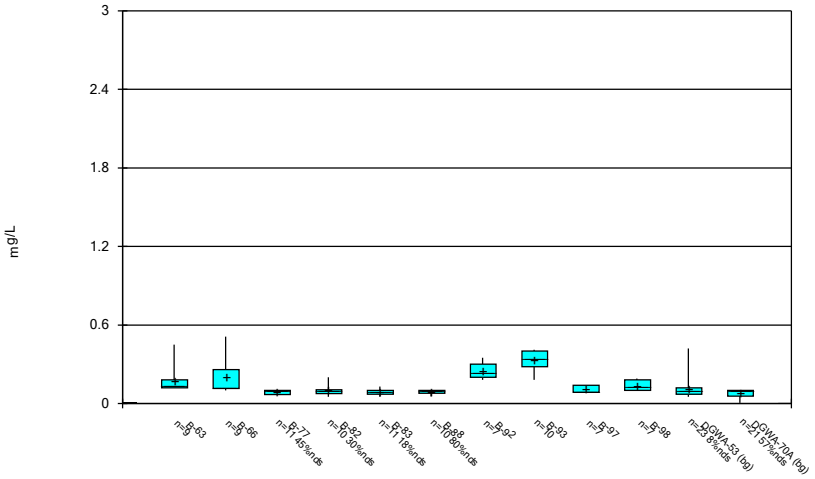
Box & Whiskers Plot



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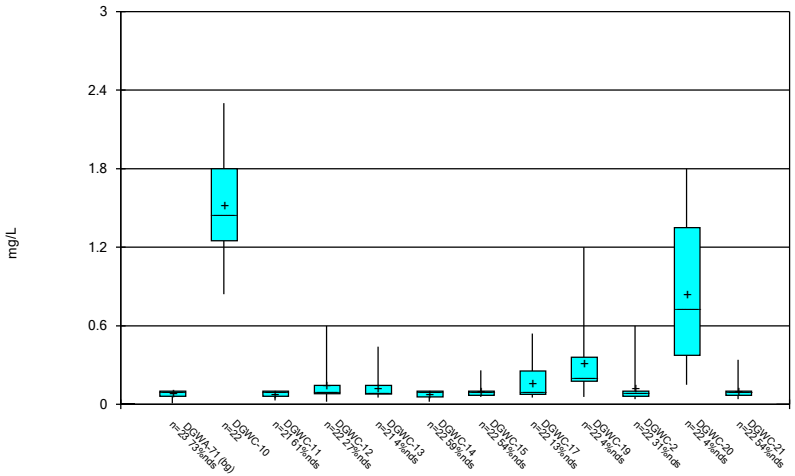

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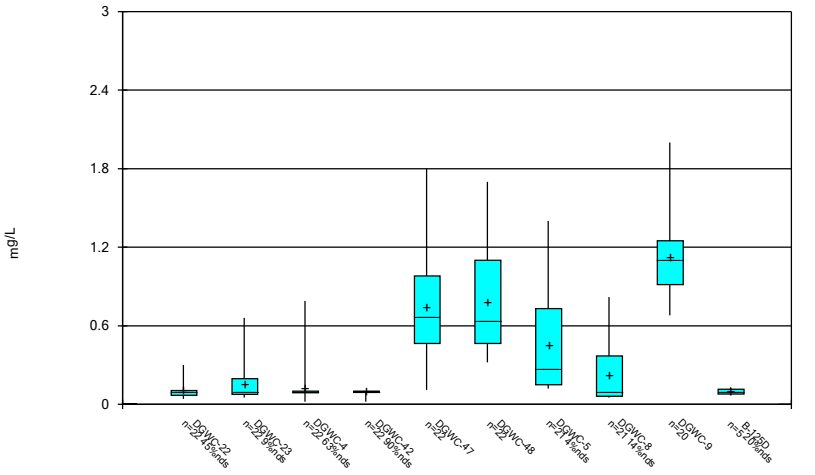

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Plant McDonough Client: Southern Company Data: McDonough AP

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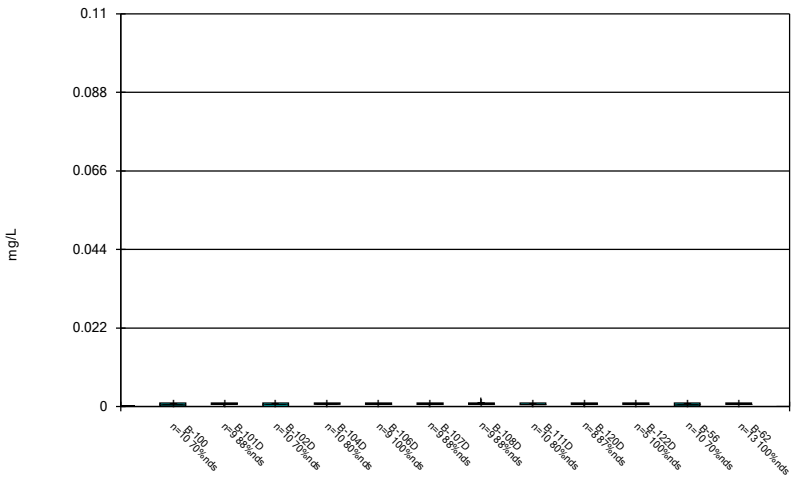
Box & Whiskers Plot



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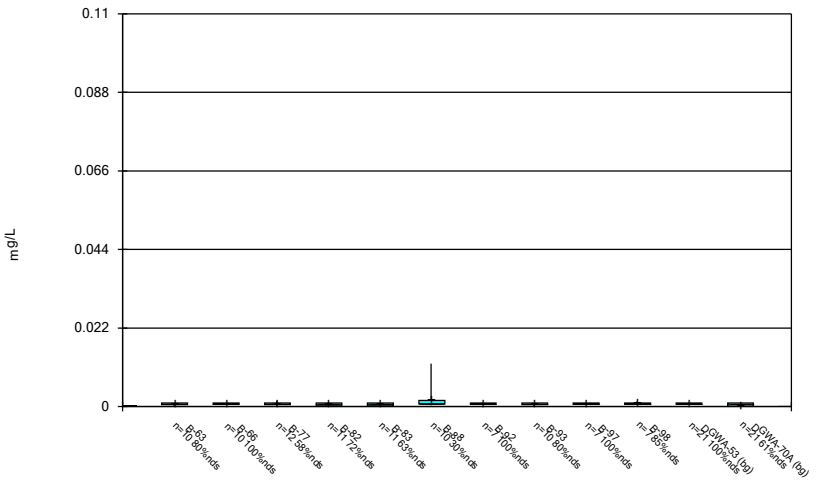
Box & Whiskers Plot



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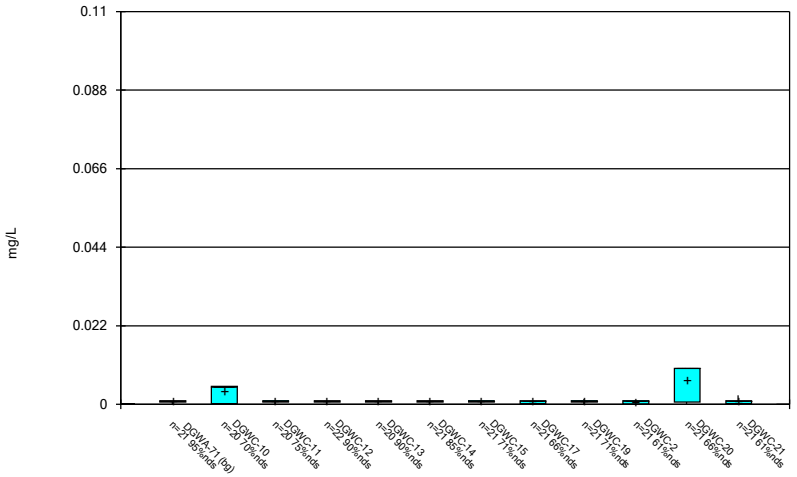
Box & Whiskers Plot



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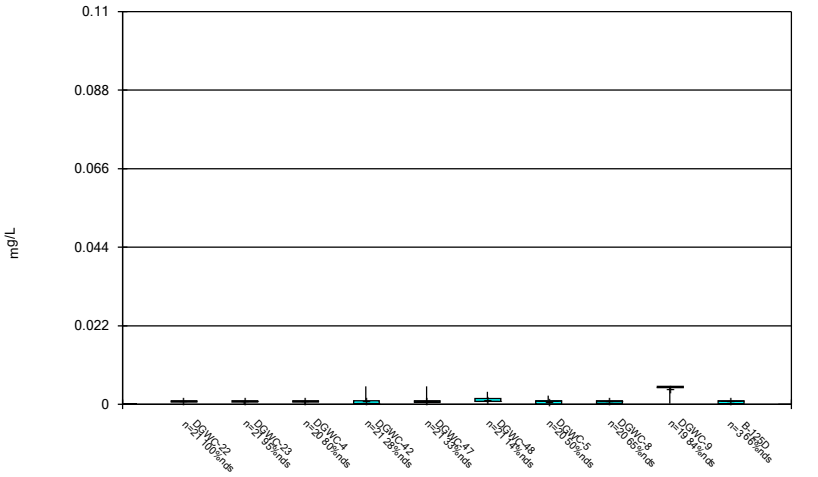

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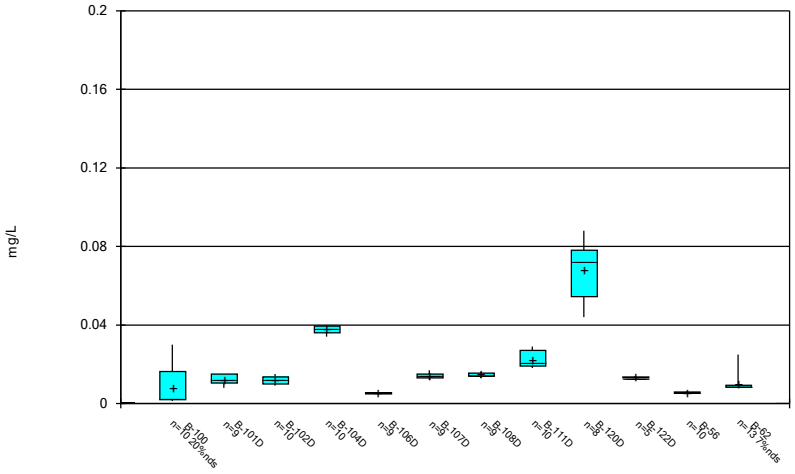
Box & Whiskers Plot



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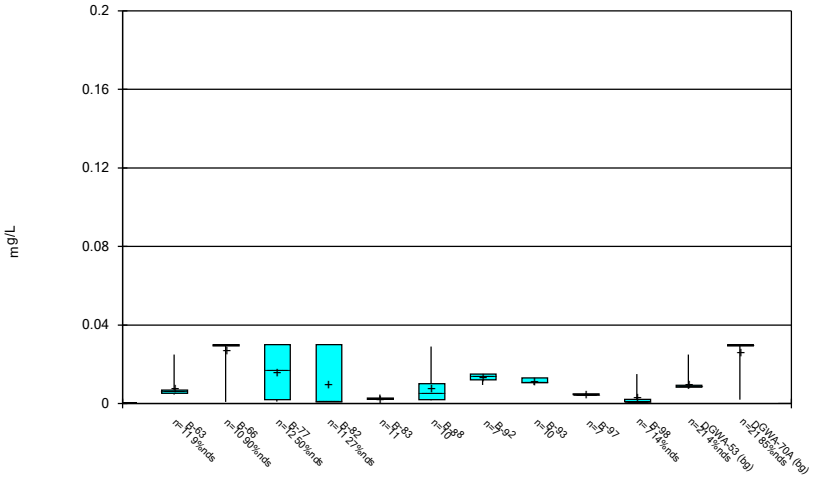
Box & Whiskers Plot



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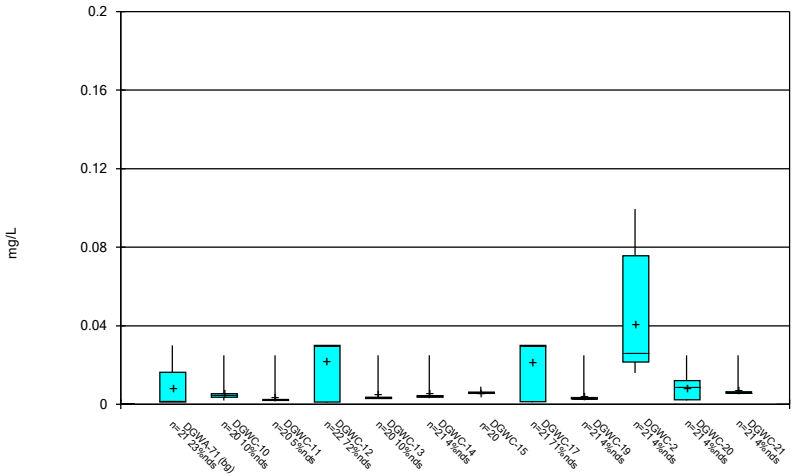
Box & Whiskers Plot



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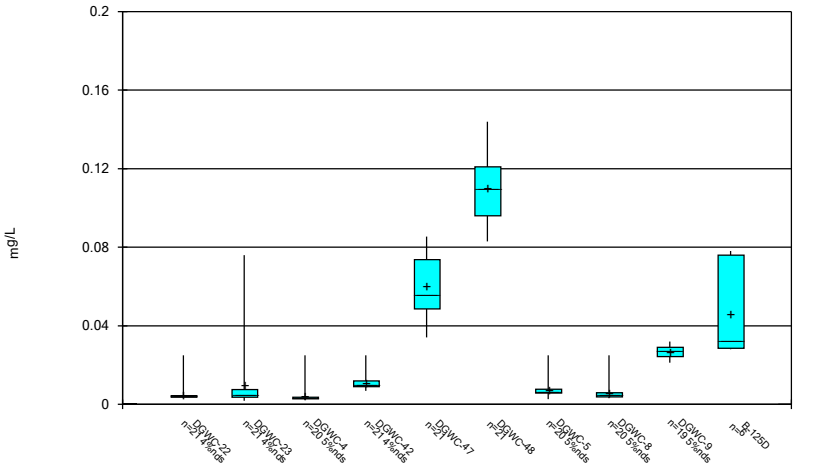
Box & Whiskers Plot



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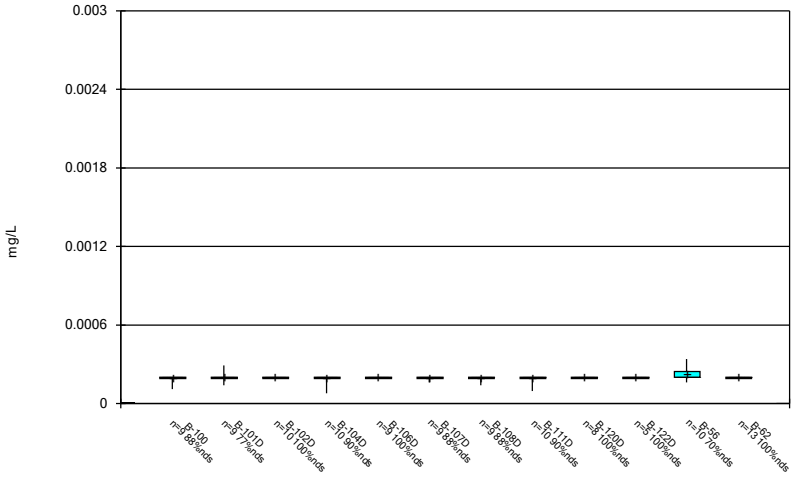
Box & Whiskers Plot



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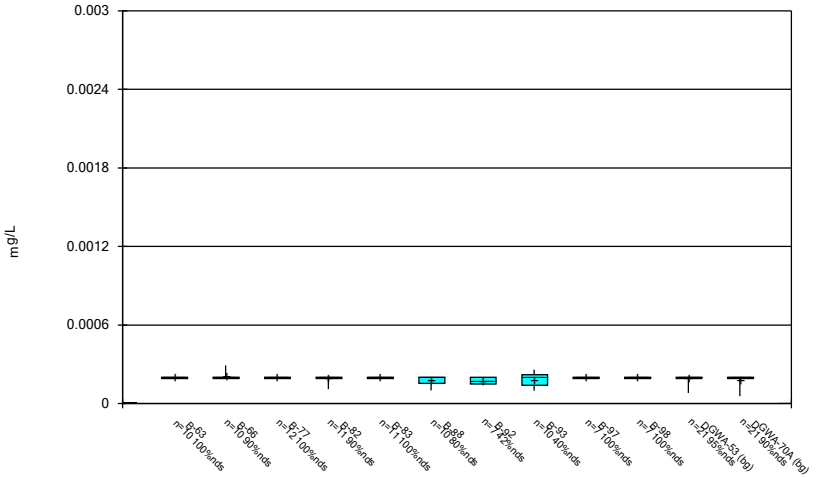
Box & Whiskers Plot



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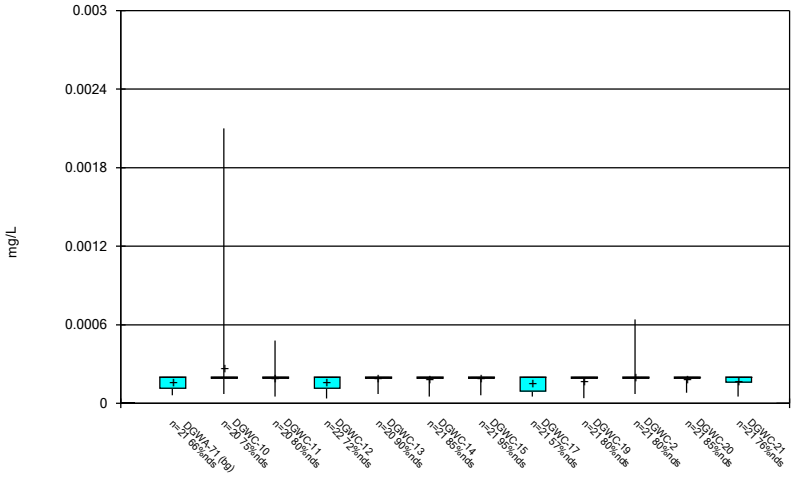
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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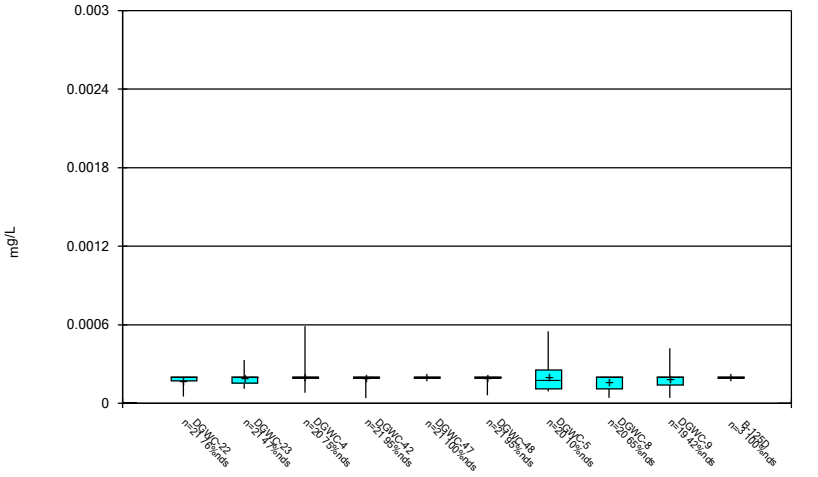
Box & Whiskers Plot



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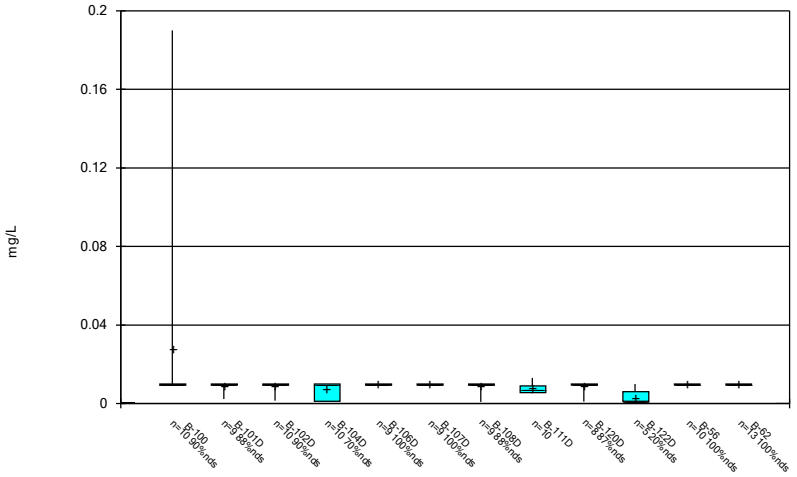
Box & Whiskers Plot



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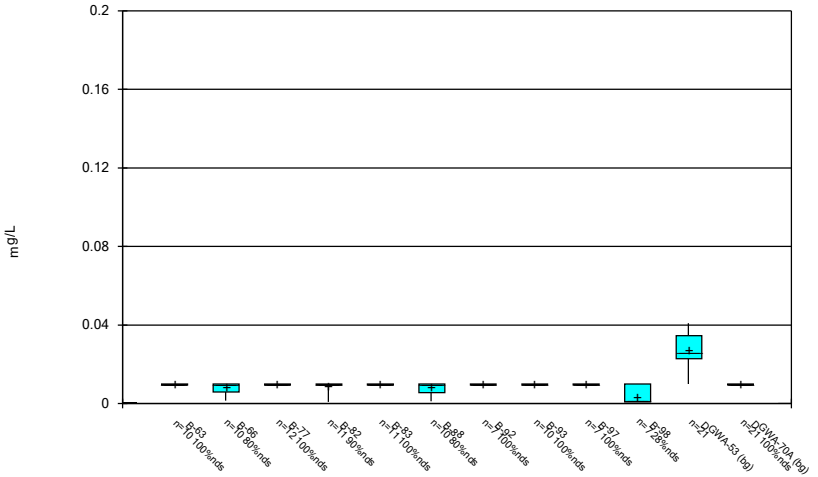
Box & Whiskers Plot



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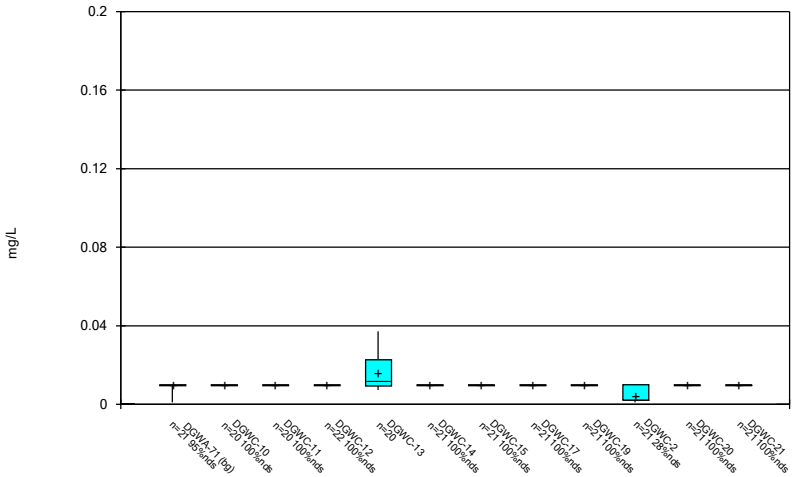
Box & Whiskers Plot



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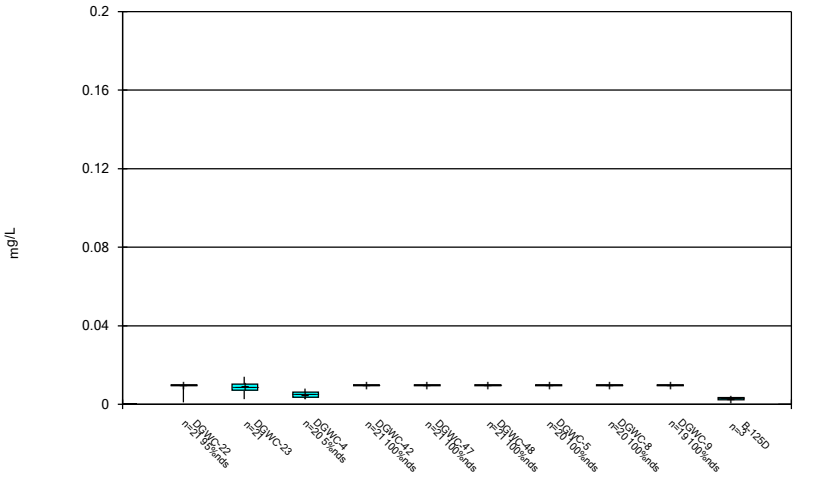
Box & Whiskers Plot



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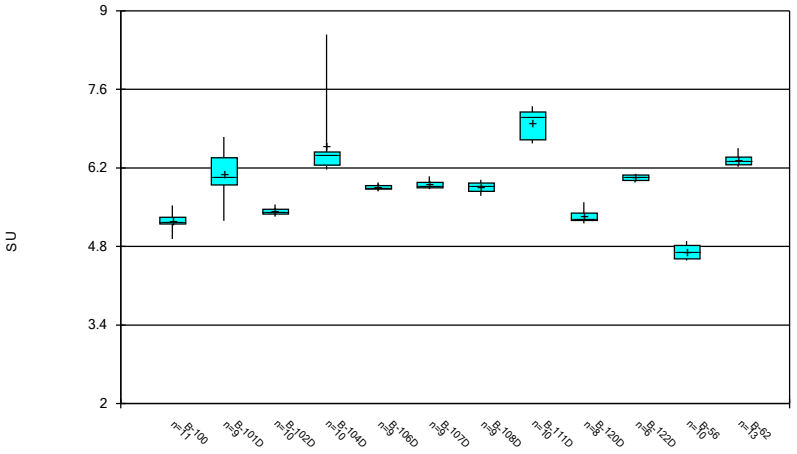
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 12/4/2024 11:50 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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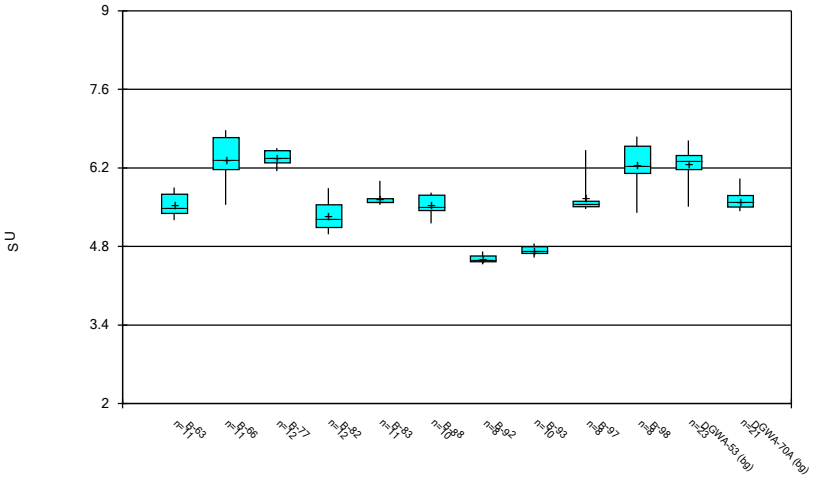
Box & Whiskers Plot



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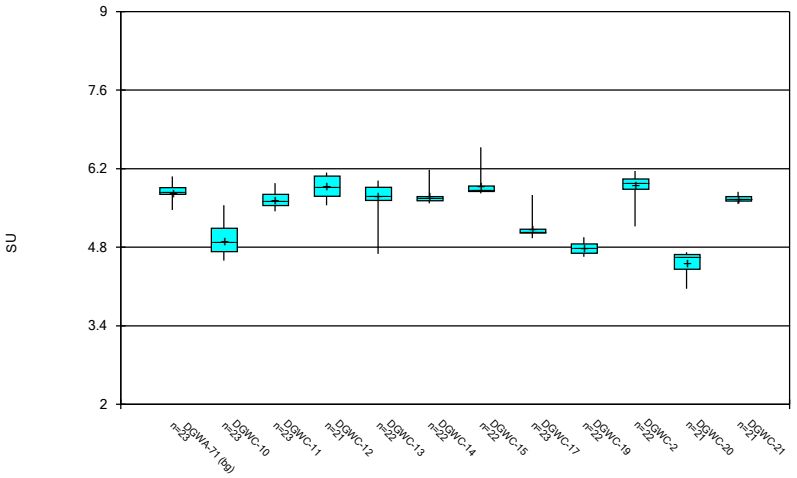
Box & Whiskers Plot



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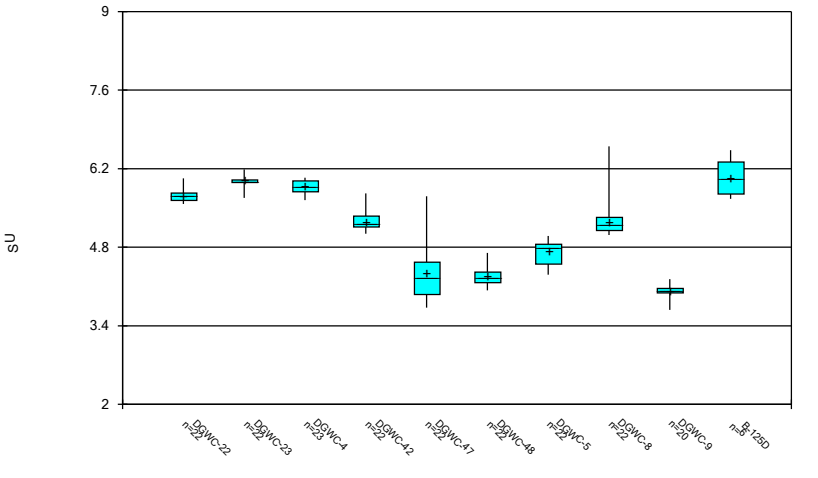
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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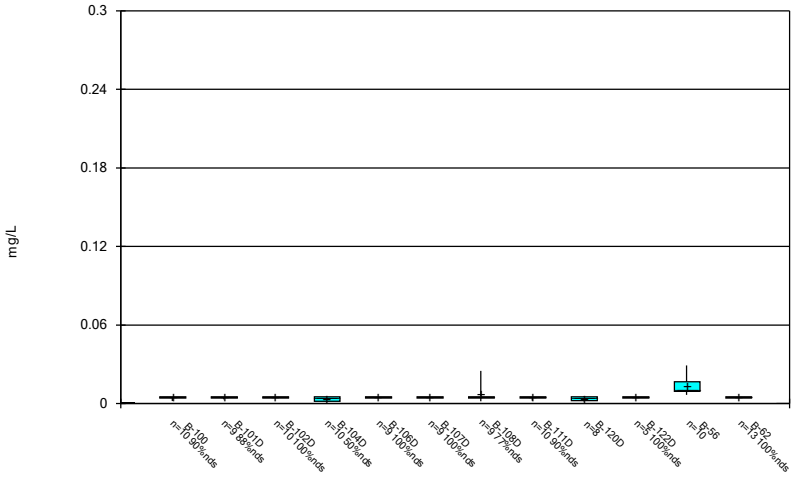
Box & Whiskers Plot



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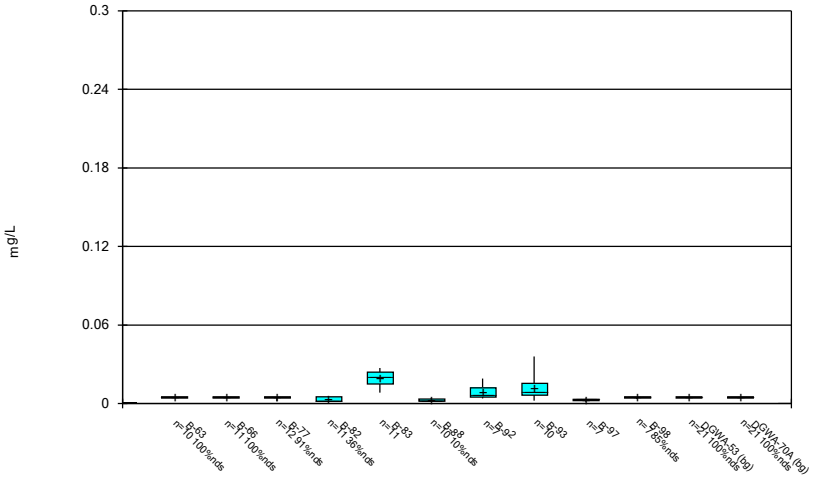
Box & Whiskers Plot



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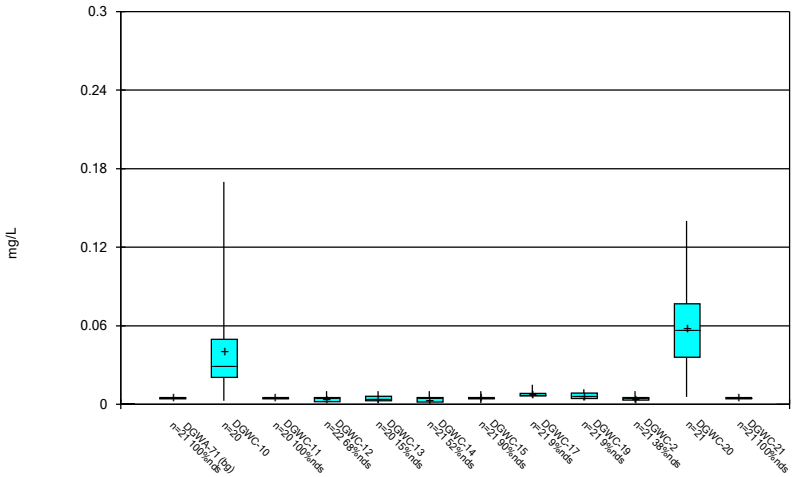

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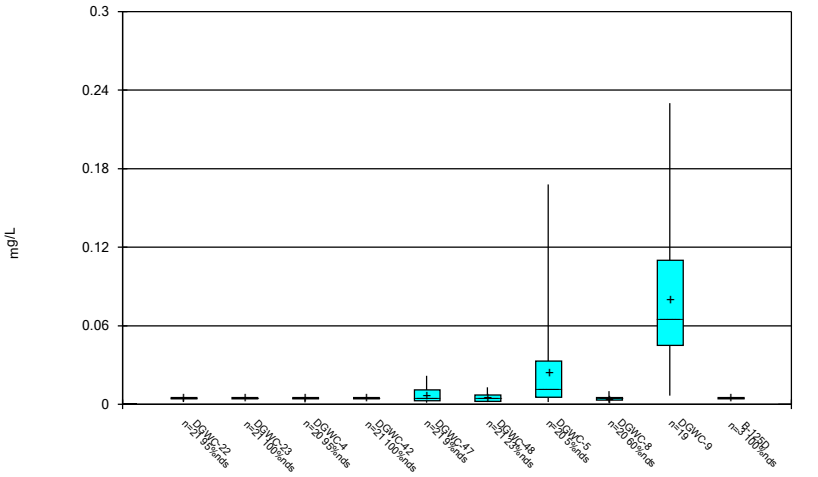

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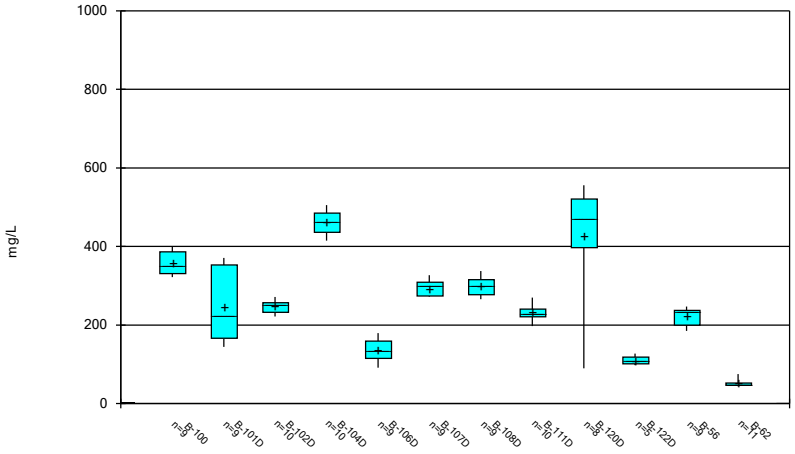
Box & Whiskers Plot



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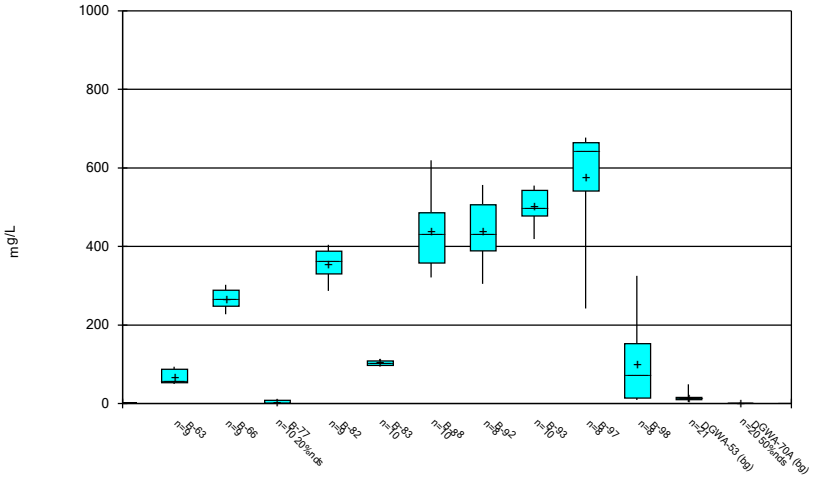
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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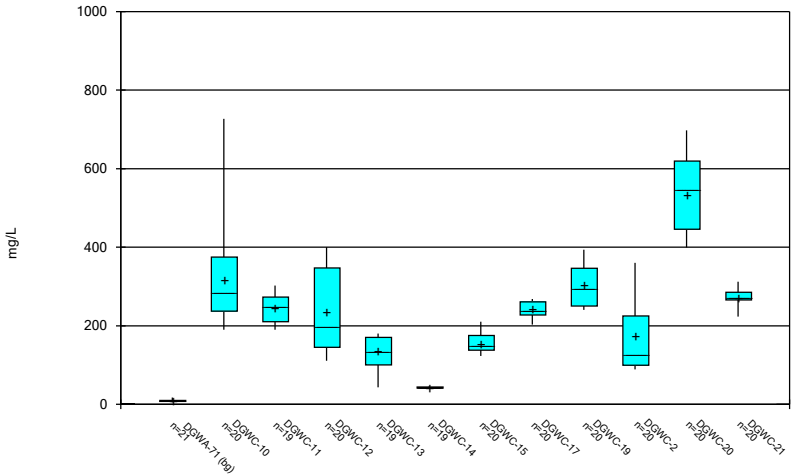
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/4/2024 11:51 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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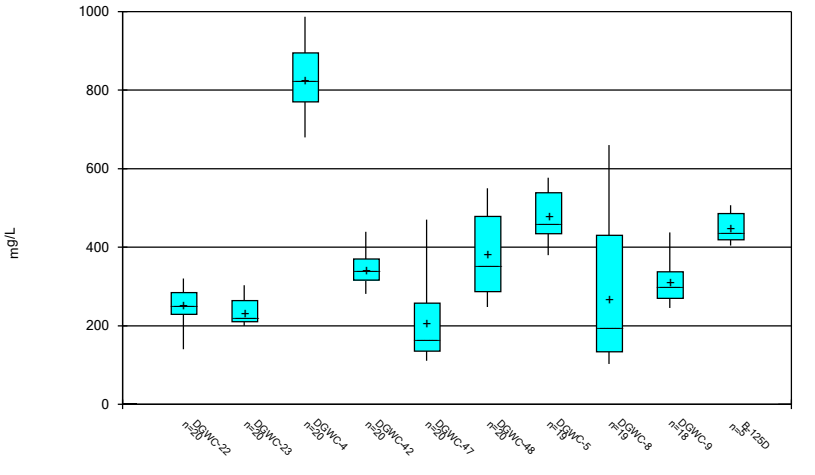
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/4/2024 11:51 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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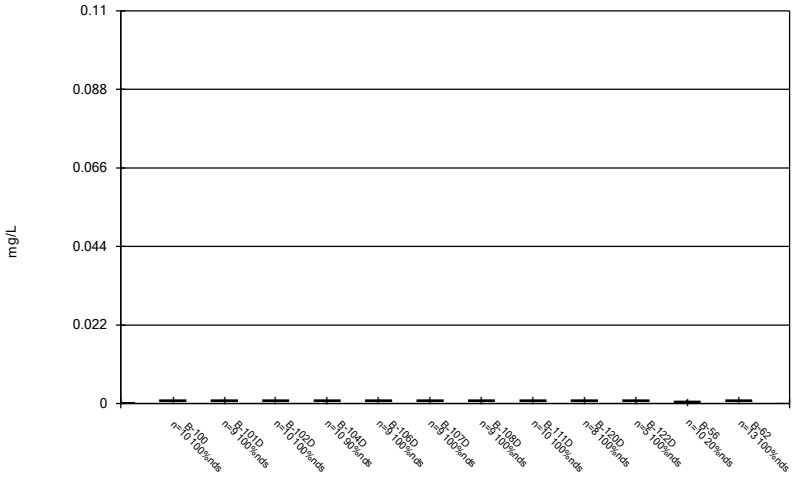
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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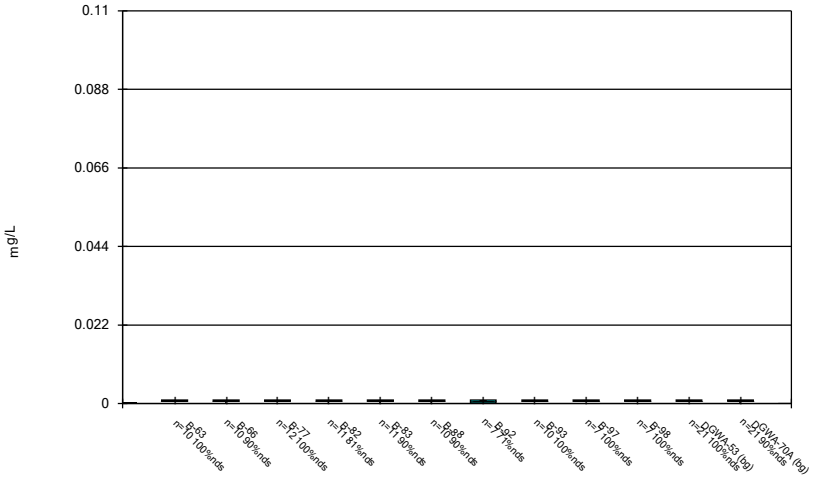
Box & Whiskers Plot



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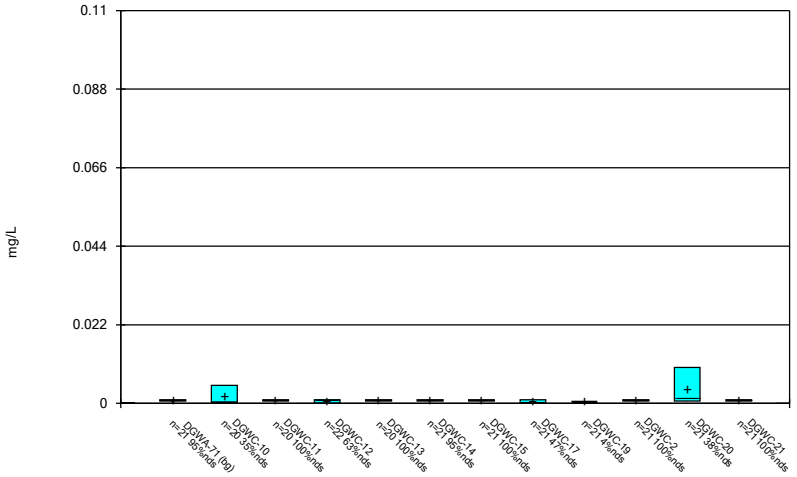
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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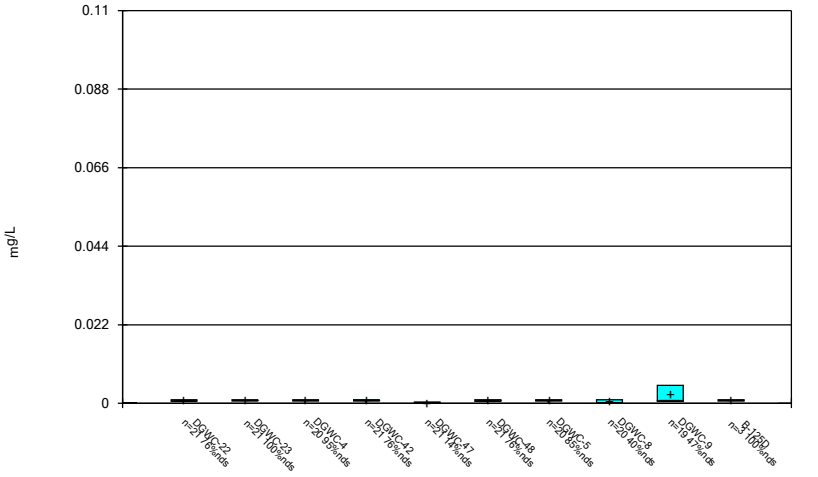
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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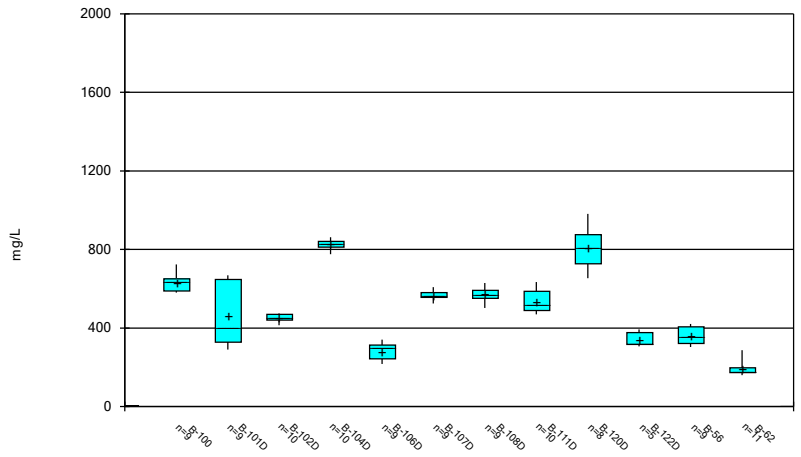
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:51 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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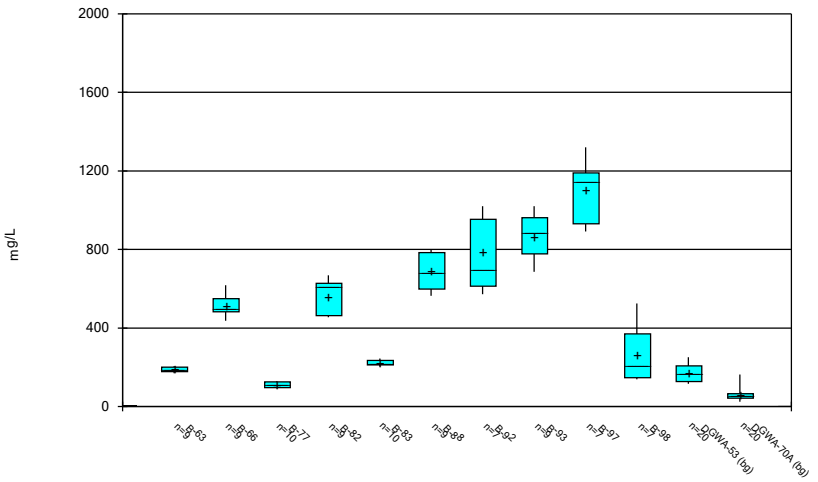
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:51 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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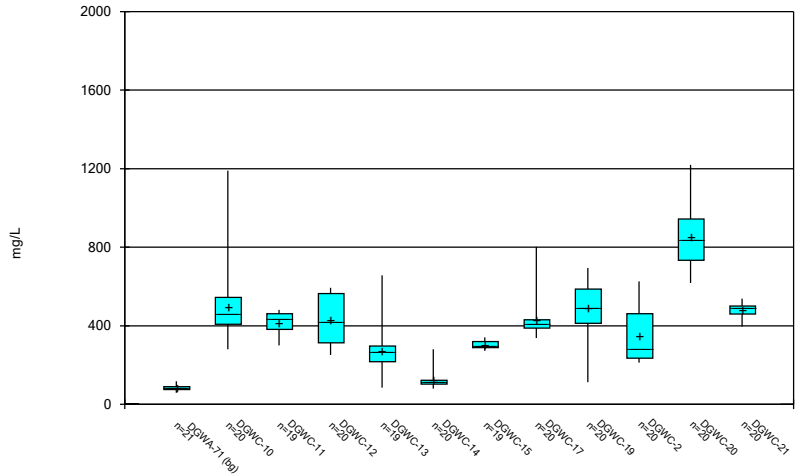
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:51 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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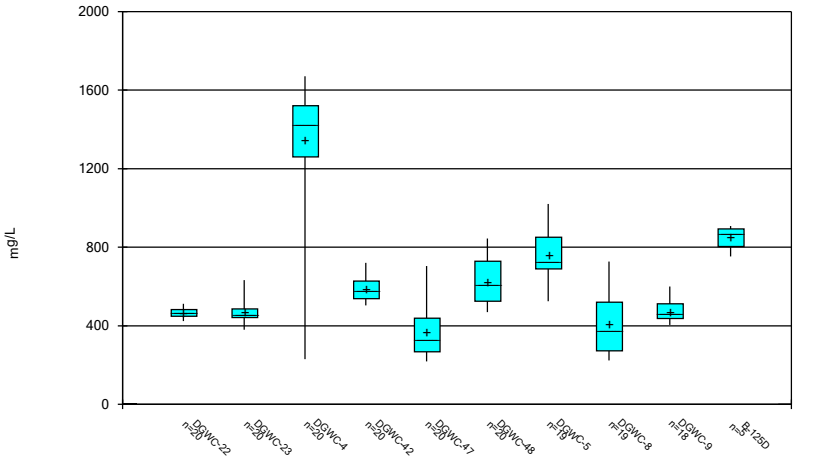
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:51 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 11:53 AM

	DGWC-5 Barium (mg/L)	DGWC-12 Chloride (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate (mg/L)	DGWA-53 Total Dissolved Solids [TDS] (mg/L)	DGWC-15 Total Dissolved Solids [TDS] (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017			1.2 (O)					
3/29/2017					81 (O)			
7/12/2017							490 (O)	
10/24/2017						671 (O)		
11/7/2018				<0.05 (O)				
10/15/2019			0.034 (O)					

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 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)	DGWC-11	0.13	n/a	9/9/2024	1.5	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/5/2024	1.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/5/2024	0.51	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/5/2024	1.3	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/10/2024	0.85	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/5/2024	2.3	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/9/2024	0.34	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/5/2024	2.6	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/4/2024	5.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/9/2024	4.1	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/5/2024	5.1	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/6/2024	3.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/5/2024	1.1	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	9/5/2024	0.15	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/10/2024	0.45	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/6/2024	2.7	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/9/2024	0.57	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	9/11/2024	0.48	Yes	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40.3	n/a	9/11/2024	198	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40.3	n/a	9/9/2024	61.2	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40.3	n/a	9/5/2024	106	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40.3	n/a	9/5/2024	110	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40.3	n/a	9/4/2024	81.9	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40.3	n/a	9/9/2024	55.5	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40.3	n/a	9/5/2024	105	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40.3	n/a	9/6/2024	219	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40.3	n/a	9/10/2024	53.8	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40.3	n/a	9/6/2024	126	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40.3	n/a	9/11/2024	43.2	Yes	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	9.4	n/a	9/11/2024	11.6	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-11	9.4	n/a	9/9/2024	11	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-13	9.4	n/a	9/5/2024	11.5	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-15	9.4	n/a	9/5/2024	20.5	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-17	9.4	n/a	9/10/2024	18.3	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-19	9.4	n/a	9/5/2024	15.6	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-20	9.4	n/a	9/5/2024	26.2	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-21	9.4	n/a	9/4/2024	18	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-22	9.4	n/a	9/9/2024	16.3	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-23	9.4	n/a	9/5/2024	11.7	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-42	9.4	n/a	9/5/2024	17.8	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-5	9.4	n/a	9/6/2024	12.4	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-8	9.4	n/a	9/9/2024	10.2	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-9	9.4	n/a	9/11/2024	10.4	Yes	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/11/2024	1.6	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	9/5/2024	1.8	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	9/5/2024	0.48	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	9/10/2024	0.43	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	9/11/2024	0.81	Yes	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	9/11/2024	4.58	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	9/10/2024	5.01	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	9/5/2024	4.79	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	9/5/2024	4.22	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	9/5/2024	5.05	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	9/5/2024	4.19	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	9/10/2024	4.35	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	9/6/2024	4.74	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	9/9/2024	5.26	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-9	6.69	5.43	9/11/2024	3.96	Yes	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-10	49	n/a	9/11/2024	727	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-11	49	n/a	9/9/2024	229	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-12	49	n/a	9/5/2024	148	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-13	49	n/a	9/5/2024	94.8	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-15	49	n/a	9/5/2024	123	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-17	49	n/a	9/10/2024	261	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-19	49	n/a	9/5/2024	376	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-2	49	n/a	9/9/2024	89.1	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-20	49	n/a	9/5/2024	698	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-21	49	n/a	9/4/2024	253	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-22	49	n/a	9/9/2024	211	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-23	49	n/a	9/5/2024	303	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-4	49	n/a	9/6/2024	708	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-42	49	n/a	9/5/2024	356	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-47	49	n/a	9/5/2024	136	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-48	49	n/a	9/10/2024	248	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-5	49	n/a	9/6/2024	558	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-8	49	n/a	9/9/2024	103	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-9	49	n/a	9/11/2024	281	Yes	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	250.1	n/a	9/11/2024	1190	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	250.1	n/a	9/9/2024	444	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	250.1	n/a	9/5/2024	331	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	250.1	n/a	9/5/2024	283	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	250.1	n/a	9/10/2024	476	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	250.1	n/a	9/5/2024	683	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	250.1	n/a	9/5/2024	1220	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	250.1	n/a	9/4/2024	537	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	250.1	n/a	9/9/2024	443	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	250.1	n/a	9/5/2024	632	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	250.1	n/a	9/6/2024	1290	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	250.1	n/a	9/5/2024	522	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	250.1	n/a	9/5/2024	324	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	250.1	n/a	9/10/2024	469	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	250.1	n/a	9/6/2024	977	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	250.1	n/a	9/11/2024	458	Yes	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 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)	DGWC-10	0.13	n/a	9/11/2024	0.18J	No	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-11**	**0.13**	**n/a**	**9/9/2024**	**1.5**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-12**	**0.13**	**n/a**	**9/5/2024**	**1.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-13**	**0.13**	**n/a**	**9/5/2024**	**0.51**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-14	0.13	n/a	9/10/2024	0.12	No	60	n/a	n/a	25	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-15**	**0.13**	**n/a**	**9/5/2024**	**1.3**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-17**	**0.13**	**n/a**	**9/10/2024**	**0.85**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-19**	**0.13**	**n/a**	**9/5/2024**	**2.3**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-2**	**0.13**	**n/a**	**9/9/2024**	**0.34**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-20**	**0.13**	**n/a**	**9/5/2024**	**2.6**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-21**	**0.13**	**n/a**	**9/4/2024**	**5.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-22**	**0.13**	**n/a**	**9/9/2024**	**4.1**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-23**	**0.13**	**n/a**	**9/5/2024**	**5.1**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-4**	**0.13**	**n/a**	**9/6/2024**	**3.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-42**	**0.13**	**n/a**	**9/5/2024**	**1.1**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-47**	**0.13**	**n/a**	**9/5/2024**	**0.15**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-48**	**0.13**	**n/a**	**9/10/2024**	**0.45**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-5**	**0.13**	**n/a**	**9/6/2024**	**2.7**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-8**	**0.13**	**n/a**	**9/9/2024**	**0.57**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-9**	**0.13**	**n/a**	**9/11/2024**	**0.48**	**Yes**	**60**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-10**	**40.3**	**n/a**	**9/11/2024**	**198**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-11**	**40.3**	**n/a**	**9/9/2024**	**61.2**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-12	40.3	n/a	9/5/2024	32.9	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40.3	n/a	9/5/2024	28.9	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40.3	n/a	9/10/2024	11.1	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40.3	n/a	9/5/2024	30.2	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40.3	n/a	9/10/2024	16.4	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-19**	**40.3**	**n/a**	**9/5/2024**	**106**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-2	40.3	n/a	9/9/2024	31.6	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-20**	**40.3**	**n/a**	**9/5/2024**	**110**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-21**	**40.3**	**n/a**	**9/4/2024**	**81.9**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-22**	**40.3**	**n/a**	**9/9/2024**	**55.5**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-23**	**40.3**	**n/a**	**9/5/2024**	**105**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-4**	**40.3**	**n/a**	**9/6/2024**	**219**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-42	40.3	n/a	9/5/2024	33	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40.3	n/a	9/5/2024	23.8	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-48**	**40.3**	**n/a**	**9/10/2024**	**53.8**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-5**	**40.3**	**n/a**	**9/6/2024**	**126**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-8	40.3	n/a	9/9/2024	23.4	No	60	n/a	n/a	3.333	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-9**	**40.3**	**n/a**	**9/11/2024**	**43.2**	**Yes**	**60**	**n/a**	**n/a**	**3.333**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-10**	**9.4**	**n/a**	**9/11/2024**	**11.6**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-11**	**9.4**	**n/a**	**9/9/2024**	**11**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-12	9.4	n/a	9/5/2024	7.9	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-13**	**9.4**	**n/a**	**9/5/2024**	**11.5**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-14	9.4	n/a	9/10/2024	3.8	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-15**	**9.4**	**n/a**	**9/5/2024**	**20.5**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-17**	**9.4**	**n/a**	**9/10/2024**	**18.3**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-19**	**9.4**	**n/a**	**9/5/2024**	**15.6**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-2	9.4	n/a	9/9/2024	2.1	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-20**	**9.4**	**n/a**	**9/5/2024**	**26.2**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-21**	**9.4**	**n/a**	**9/4/2024**	**18**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-22**	**9.4**	**n/a**	**9/9/2024**	**16.3**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-23**	**9.4**	**n/a**	**9/5/2024**	**11.7**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-4	9.4	n/a	9/6/2024	7.5	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-42**	**9.4**	**n/a**	**9/5/2024**	**17.8**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-47	9.4	n/a	9/5/2024	3.4	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-48	9.4	n/a	9/10/2024	5.8	No	62	n/a	n/a	0	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-5**	**9.4**	**n/a**	**9/6/2024**	**12.4**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-8**	**9.4**	**n/a**	**9/9/2024**	**10.2**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-9**	**9.4**	**n/a**	**9/11/2024**	**10.4**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-10**	**0.42**	**n/a**	**9/11/2024**	**1.6**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-11	0.42	n/a	9/9/2024	0.056J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	9/5/2024	0.064J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	9/5/2024	0.079J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	9/10/2024	0.051J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	9/5/2024	0.061J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	9/10/2024	0.11	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	9/5/2024	0.18	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-2	0.42	n/a	9/9/2024	0.093J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-20**	**0.42**	**n/a**	**9/5/2024**	**1.8**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-21	0.42	n/a	9/4/2024	0.065J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-22	0.42	n/a	9/9/2024	0.067J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	9/5/2024	0.089J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	9/6/2024	0.051J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	9/5/2024	0.1ND	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-47**	**0.42**	**n/a**	**9/5/2024**	**0.48**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-48**	**0.42**	**n/a**	**9/10/2024**	**0.43**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-5	0.42	n/a	9/6/2024	0.23	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	9/9/2024	0.076J	No	67	n/a	n/a	46.27	n/a	n/a	0.0004162	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-9**	**0.42**	**n/a**	**9/11/2024**	**0.81**	**Yes**	**67**	**n/a**	**n/a**	**46.27**	**n/a**	**n/a**	**0.0004162**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-10**	**6.69**	**5.43**	**9/11/2024**	**4.58**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-11	6.69	5.43	9/9/2024	5.53	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	9/5/2024	5.79	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	9/5/2024	5.58	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	9/10/2024	5.68	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	9/5/2024	5.79	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-17**	**6.69**	**5.43**	**9/10/2024**	**5.01**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.69**	**5.43**	**9/5/2024**	**4.79**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-2	6.69	5.43	9/9/2024	6.07	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-20**	**6.69**	**5.43**	**9/5/2024**	**4.22**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-21	6.69	5.43	9/4/2024	5.62	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	9/9/2024	5.6	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	9/5/2024	6.11	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	9/6/2024	5.65	No	67	n/a	n/a	0	n/a	n/a	0.0008324	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-42**	**6.69**	**5.43**	**9/5/2024**	**5.05**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.69**	**5.43**	**9/5/2024**	**4.19**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.69**	**5.43**	**9/10/2024**	**4.35**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.69**	**5.43**	**9/6/2024**	**4.74**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-8**	**6.69**	**5.43**	**9/9/2024**	**5.26**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-9**	**6.69**	**5.43**	**9/11/2024**	**3.96**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008324**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-10**	**49**	**n/a**	**9/11/2024**	**727**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-11**	**49**	**n/a**	**9/9/2024**	**229**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-12**	**49**	**n/a**	**9/5/2024**	**148**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-13**	**49**	**n/a**	**9/5/2024**	**94.8**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	DGWC-14	49	n/a	9/10/2024	43.8	No	62	n/a	n/a	16.13	n/a	n/a	0.0004799	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**DGWC-15**	**49**	**n/a**	**9/5/2024**	**123**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-17**	**49**	**n/a**	**9/10/2024**	**261**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-19**	**49**	**n/a**	**9/5/2024**	**376**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-2**	**49**	**n/a**	**9/9/2024**	**89.1**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-20**	**49**	**n/a**	**9/5/2024**	**698**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-21**	**49**	**n/a**	**9/4/2024**	**253**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-22**	**49**	**n/a**	**9/9/2024**	**211**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-23**	**49**	**n/a**	**9/5/2024**	**303**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-4**	**49**	**n/a**	**9/6/2024**	**708**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-42**	**49**	**n/a**	**9/5/2024**	**356**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-47**	**49**	**n/a**	**9/5/2024**	**136**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-48**	**49**	**n/a**	**9/10/2024**	**248**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-5**	**49**	**n/a**	**9/6/2024**	**558**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-8**	**49**	**n/a**	**9/9/2024**	**103**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-9**	**49**	**n/a**	**9/11/2024**	**281**	**Yes**	**62**	**n/a**	**n/a**	**16.13**	**n/a**	**n/a**	**0.0004799**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**250.1**	**n/a**	**9/11/2024**	**1190**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**250.1**	**n/a**	**9/9/2024**	**444**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**250.1**	**n/a**	**9/5/2024**	**331**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	250.1	n/a	9/5/2024	211	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	250.1	n/a	9/10/2024	117	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**250.1**	**n/a**	**9/5/2024**	**283**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**250.1**	**n/a**	**9/10/2024**	**476**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**250.1**	**n/a**	**9/5/2024**	**683**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	250.1	n/a	9/9/2024	227	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**250.1**	**n/a**	**9/5/2024**	**1220**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**250.1**	**n/a**	**9/4/2024**	**537**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**250.1**	**n/a**	**9/9/2024**	**443**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**250.1**	**n/a**	**9/5/2024**	**632**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**250.1**	**n/a**	**9/6/2024**	**1290**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**250.1**	**n/a**	**9/5/2024**	**522**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-47**	**250.1**	**n/a**	**9/5/2024**	**324**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**250.1**	**n/a**	**9/10/2024**	**469**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**250.1**	**n/a**	**9/6/2024**	**977**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	250.1	n/a	9/9/2024	241	No	61	9.822	2.747	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-9**	**250.1**	**n/a**	**9/11/2024**	**458**	**Yes**	**61**	**9.822**	**2.747**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**

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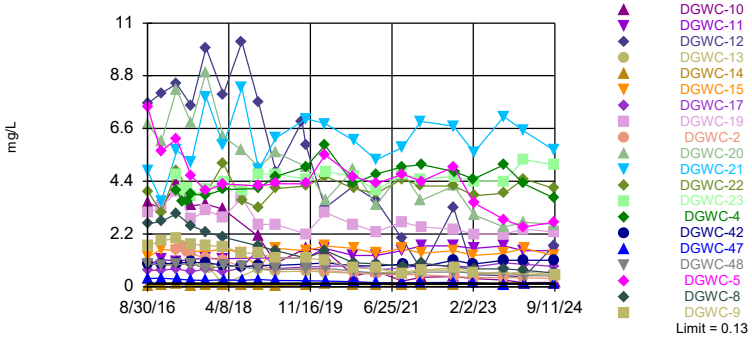
Exceeds Limit: DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21, DGWC-22...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 25% NDs. Annual per-constituent alpha = 0.02002. Individual comparison alpha = 0.0005055 (1 of 2). Comparing 20 points to limit.

Constituent: Boron Analysis Run 12/4/2024 11:58 AM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

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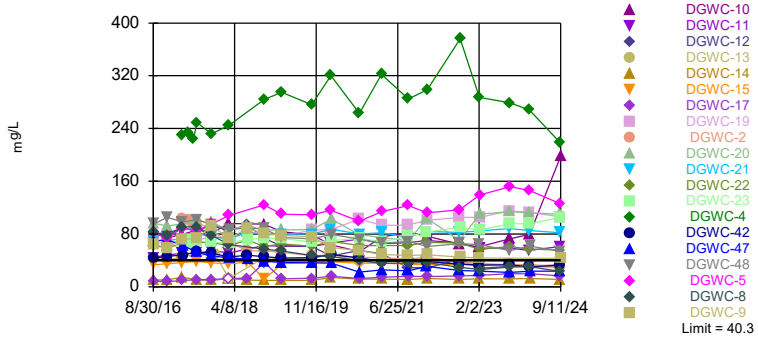
Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-11, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-48, DGWC-5...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 3.333% NDs. Annual per-constituent alpha = 0.02002. Individual comparison alpha = 0.0005055 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium Analysis Run 12/4/2024 11:58 AM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

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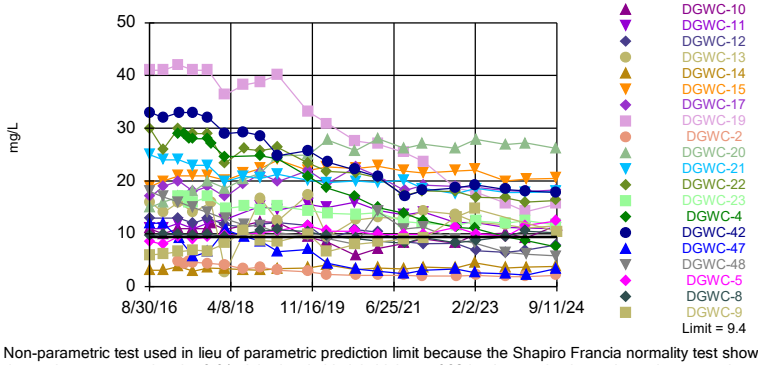
Exceeds Limit: DGWC-10, DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 62 background values. Annual per-constituent alpha = 0.01902. Individual comparison alpha = 0.0004799 (1 of 2). Comparing 20 points to limit.

Constituent: Chloride Analysis Run 12/4/2024 11:58 AM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

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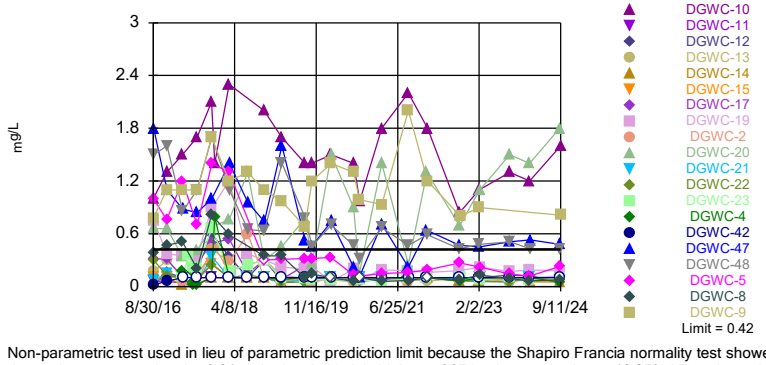
Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-20, DGWC-47, DGWC-48, DGWC-9

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 67 background values. 46.27% NDs. Annual per-constituent alpha = 0.01651. Individual comparison alpha = 0.0004162 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride Analysis Run 12/4/2024 11:58 AM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

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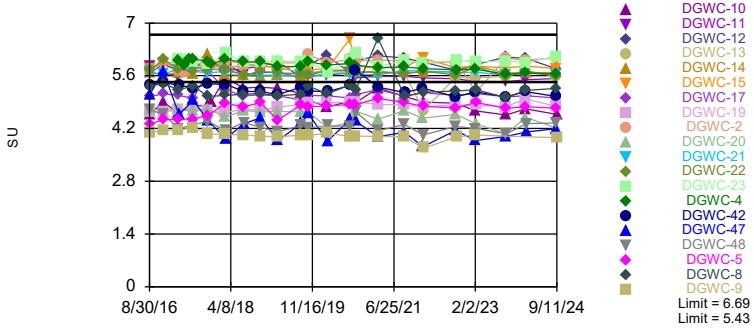
Exceeds Limits: DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 67 background values. Annual per-constituent alpha = 0.03303. Individual comparison alpha = 0.0008324 (1 of 2). Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 12/4/2024 11:58 AM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

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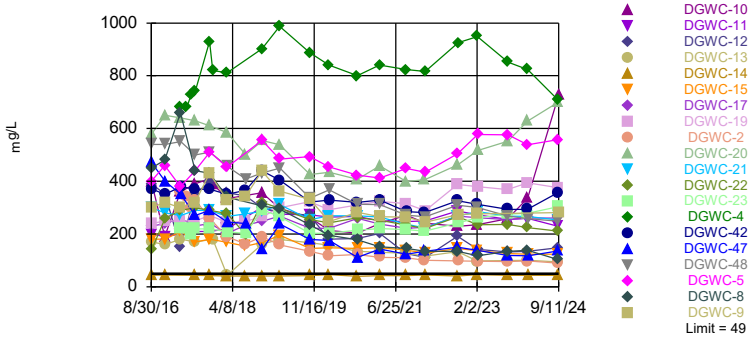
Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 62 background values. 16.13% NDs. Annual per-constituent alpha = 0.01902. Individual comparison alpha = 0.0004799 (1 of 2). Comparing 20 points to limit.

Constituent: Sulfate Analysis Run 12/4/2024 11:58 AM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

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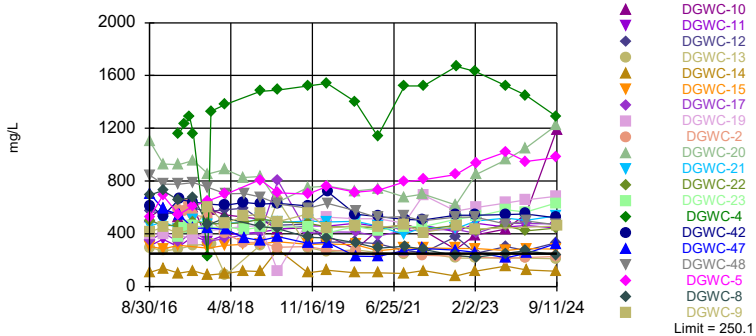
Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23...

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=9.822, Std. Dev.=2.747, n=61. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9612, critical = 0.946. Kappa = 2.182 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 11:58 AM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-5	DGWC-10	DGWC-11	DGWC-48	DGWC-19	DGWC-47
8/30/2016	1.72	2.63							
8/31/2016			0.0419 (J)	7.5	3.5	0.914			
9/1/2016							0.955	3.08	0.345
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.92	2.72	0.0804	5.64	3.3	1.15			
12/7/2016								3.34	
12/8/2016							0.919		0.352
3/28/2017	2.01			6.16					
3/29/2017		3.04	0.103		4.3	1.07		3.96	
3/30/2017							0.925		
3/31/2017									0.312
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	1.78	2.55		4.61					
7/12/2017			0.044		3.38	1.14		2.82	
7/13/2017							0.972		0.28
8/8/2017									
10/24/2017	1.72	2.29			3.45	1.18			
10/25/2017			0.0565	4				3.19	
10/26/2017							0.746		0.269
11/15/2017									
2/27/2018	1.68	2.07	0.0539	4.29	3.23	1.17			
2/28/2018								2.91	
3/1/2018									0.296
3/2/2018							0.878		
3/8/2018									
7/10/2018									
7/11/2018	1.4		0.057					3.7	
7/12/2018							0.82		0.26
11/6/2018	1.4	1.7		4.2	2.1	1.2			
11/7/2018			0.055				0.74	2.6	0.3
11/8/2018									
3/12/2019	1.2	1.5		4.3	0.98	1.2			
3/13/2019			0.047					2.6	
3/14/2019							0.72		0.26
9/17/2019									
10/15/2019					1.6	1.2			
10/16/2019		1.2	0.052	4.3				2.2	
10/17/2019	1.2								0.25
10/18/2019							0.74		
3/2/2020				5.5		1.6			
3/3/2020	1.1	1.5	0.15		1.5			3.1	
3/4/2020							0.77		0.24
3/9/2020									
9/22/2020	0.78		0.086 (J)	4.6		1.3		2.6	
9/23/2020		1					0.65		0.21
9/24/2020					0.45				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-5	DGWC-10	DGWC-11	DGWC-48	DGWC-19	DGWC-47
3/1/2021									
3/2/2021	0.77	0.96	0.089	4.3		1.3		2.3	
3/3/2021							0.57		0.17
3/4/2021					0.65				
3/12/2021									
9/8/2021									
9/9/2021			0.08			1.5		2.7	
9/10/2021	0.54			4.7	0.24		0.55		0.16
9/13/2021		0.86							
1/18/2022									
1/20/2022									
1/21/2022									0.17
1/24/2022				4.4			0.61		
1/25/2022		0.98	0.097			1.7		2.5	
1/26/2022	0.69				0.4				
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			0.091				0.61		0.18
9/14/2022				5				2.4	
9/15/2022		0.83			0.42	1.7			
9/16/2022									
9/19/2022	0.8								
9/20/2022									
1/31/2023									
2/1/2023			0.16						
2/2/2023					0.34				
2/3/2023	0.61						0.59		0.16
2/6/2023						1.6		2.2	
2/7/2023		0.74		3.5					
9/6/2023									
9/7/2023									
9/8/2023			0.11			1.7		2.2	
9/11/2023					0.28				
9/12/2023		0.75							0.1
9/13/2023				2.8			0.57		
1/30/2024									
1/31/2024									
2/1/2024		0.69		2.5		1.5		2.4	
2/2/2024					0.17				
2/5/2024			0.13				0.46		0.13
2/6/2024									
9/4/2024									
9/5/2024								2.3	0.15
9/6/2024				2.7					
9/9/2024		0.57				1.5			
9/10/2024			0.12				0.45		
9/11/2024	0.48				0.18 (J)				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-22	DGWC-21	DGWC-20	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	7.64								
9/2/2016		3.99	4.81	6.77					
9/6/2016					1.25	1			
9/7/2016							0.683	0.924	
12/6/2016									
12/7/2016	8.07			6.04	1.56	0.9			
12/8/2016		3.1	3.57				0.688	0.957	
3/28/2017									0.0097 (J)
3/29/2017	8.46	4.85		8.23					
3/30/2017			5.68		1.5	0.898	0.743		
3/31/2017								0.989	
5/11/2017									
5/12/2017									0.0082 (J)
5/15/2017									
6/15/2017									
6/16/2017									0.0085 (J)
7/11/2017									0.0077 (J)
7/12/2017	7.55		5.2	6.81	1.49	0.996	0.62		
7/13/2017		3.85						1.03	
8/8/2017									
10/24/2017									0.0083 (J)
10/25/2017	9.97	3.9	7.92	8.94	1.47		0.739	0.982	
10/26/2017									
11/15/2017						0.795			
2/27/2018	8.03								0.0069 (J)
2/28/2018		5.14	5.89	6.26	1.58	0.106	0.627	0.918	
3/1/2018									
3/2/2018									
3/8/2018									
7/10/2018									0.0059 (J)
7/11/2018	10.2		8.3	5.7	1.4		0.79	0.83	
7/12/2018		3.6							
11/6/2018									<0.04 (J)
11/7/2018	7.7	3.3	4.9	5	0.8	0.76	1.6	0.89	
11/8/2018									
3/12/2019	4.8								0.0068 (J)
3/13/2019			6.2	5.6		0.62	0.76		
3/14/2019		4.1			1.6			0.89	
9/17/2019	6.9								
10/15/2019	5.9								0.0054 (J)
10/16/2019						0.65			
10/17/2019			7	5	1.5			0.94	
10/18/2019		4.2					0.82		
3/2/2020	3.3								0.01 (J)
3/3/2020		4.6	6.8		1.7	0.61			
3/4/2020				3.6			0.85	1	
3/9/2020									
9/22/2020	4.2			4.9				0.88	<0.04
9/23/2020					1.6	0.57			
9/24/2020		4.1	6.1				0.88		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-22	DGWC-21	DGWC-20	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-71 (bg)
3/1/2021									0.0054 (J)
3/2/2021				3.4	1.4	0.58			
3/3/2021	3.6	3.9	5.3				0.71	0.87	
3/4/2021									
3/12/2021									
9/8/2021									<0.04
9/9/2021	2		5.8		1.6	0.62			
9/10/2021		4.5		4.8					
9/13/2021							0.78	0.95	
1/18/2022									0.015 (J)
1/20/2022		4.2	6.9					0.83	
1/21/2022				3.6					
1/24/2022					1.4		0.9		
1/25/2022	0.7					0.69			
1/26/2022									
1/28/2022									
9/7/2022									<0.04
9/8/2022									
9/13/2022					1.5			1.1	
9/14/2022							0.87		
9/15/2022	3.3		6.7	4.2		0.69			
9/16/2022		4.2							
9/19/2022									
9/20/2022									
1/31/2023									0.0097 (J)
2/1/2023						0.54		0.94	
2/2/2023					1.3				
2/3/2023									
2/6/2023	0.51	3.8					0.83		
2/7/2023			5.6	3					
9/6/2023									0.015 (J)
9/7/2023									
9/8/2023					1.4	0.55			
9/11/2023	0.46	3.9	7.1	2.5					
9/12/2023									
9/13/2023							1	1.1	
1/30/2024								1.1	0.015 (J)
1/31/2024		4.5	6.5			0.63			
2/1/2024				2.7					
2/2/2024	0.41								
2/5/2024					1.6				
2/6/2024							0.93		
9/4/2024			5.7						<0.04
9/5/2024	1.7			2.6	1.3	0.51		1.1	
9/6/2024									
9/9/2024		4.1							
9/10/2024							0.85		
9/11/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	4.01	0.0612	0.0067 (J)		
3/29/2017					
3/30/2017				4.68	1.56
3/31/2017					
5/11/2017		0.0805			1.65
5/12/2017	3.58			4.03	
5/15/2017			0.0073 (J)		
6/15/2017	3.58	0.0725	<0.04	4.11	1.44
6/16/2017					
7/11/2017	3.85		<0.04		1.39
7/12/2017		0.0735		3.74	
7/13/2017					
8/8/2017			<0.04		
10/24/2017	3.82	0.077	0.0082 (J)		1.18
10/25/2017					
10/26/2017				4.07	
11/15/2017					
2/27/2018	4.06		0.0062 (J)		1.12
2/28/2018					
3/1/2018				4.37	
3/2/2018					
3/8/2018		0.13 (J)			
7/10/2018			0.0077 (J)		
7/11/2018					0.82
7/12/2018		0.076		4	
11/6/2018	4.1		<0.04 (J)		0.9
11/7/2018		0.073			
11/8/2018				4.7	
3/12/2019	4.6		0.0073 (J)		0.72
3/13/2019		0.08			
3/14/2019				4.7	
9/17/2019					
10/15/2019	5		<0.04		
10/16/2019		0.059			
10/17/2019					0.73
10/18/2019				4.5	
3/2/2020	5.9		0.0055 (J)		
3/3/2020					0.68
3/4/2020				4.8	
3/9/2020		0.08 (J)			
9/22/2020	4.3	0.056 (J)	<0.04		
9/23/2020					0.57
9/24/2020				4.6	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
3/1/2021	4.7		<0.04		
3/2/2021					0.52
3/3/2021				4	
3/4/2021					
3/12/2021		0.064			
9/8/2021					
9/9/2021		0.065	<0.04	4.7	0.51
9/10/2021	5				
9/13/2021					
1/18/2022			0.024 (J)		
1/20/2022				4.5	0.5
1/21/2022					
1/24/2022	5.1				
1/25/2022					
1/26/2022					
1/28/2022		0.062			
9/7/2022			<0.04		
9/8/2022		0.054			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	4.8				
9/20/2022				4.6	0.42
1/31/2023			0.011 (J)		
2/1/2023		0.051			
2/2/2023					
2/3/2023	4.5				
2/6/2023				4.4	0.38
2/7/2023					
9/6/2023			0.012 (J)		
9/7/2023		0.052			
9/8/2023					
9/11/2023				4.4	
9/12/2023					
9/13/2023	5.1				0.38
1/30/2024		0.065			
1/31/2024				5.3	
2/1/2024	4.3				0.37
2/2/2024					
2/5/2024					
2/6/2024					
9/4/2024			<0.04		
9/5/2024				5.1	
9/6/2024	3.7				
9/9/2024					0.34
9/10/2024					
9/11/2024		0.042			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-11	DGWC-5	DGWC-14	DGWC-10	DGWC-12	DGWC-47	DGWC-48
8/30/2016	64.9	82.7							
8/31/2016			44.2	82.6	9.95	81.7			
9/1/2016							80.6	69.3	95.1
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	59.3	76.8	48.3	73.9	10.4	74.2			
12/7/2016							82.1		
12/8/2016								71.1	105
3/28/2017	71.6			89.1					
3/29/2017		90.5	50.5		14.4	79.5	88.3		
3/30/2017									98.6
3/31/2017								62.6	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	73.7	91.1		84.6					
7/12/2017			50.8		10.5	86.3	87		
7/13/2017								52.5	102
8/8/2017									
10/24/2017	92.5	78.1	55			81.5			
10/25/2017				95.6	9.67		92.1		
10/26/2017								46.7	94
11/15/2017									
2/27/2018	73.1	64.2	51.4	108	<25	96.2	85.6		
2/28/2018									
3/1/2018								44.2	
3/2/2018									86.6
3/8/2018									
7/10/2018									
7/11/2018	88.5				9.9		93.6		
7/12/2018								41.6	89.1
11/6/2018	81.1	57	62.6	124		94.8			
11/7/2018					9.7		73.3	38.6	88
11/8/2018									
3/12/2019	78.1	54.3	61.4	110		83.5	62.1		
3/13/2019					9.7				
3/14/2019								36.6	74.6
10/15/2019			61.2			79.1	61.4		
10/16/2019		47.3		109	9.4				
10/17/2019	75.6							36.2	
10/18/2019									72.7
3/2/2020			65.8	116			46.5		
3/3/2020	59.5	46			14	63.6			
3/4/2020								36	79.7
3/9/2020									
9/22/2020	54.7		72.7	99.2	11.6		55.4		
9/23/2020		39.3						22.3	72.2
9/24/2020						53.1			
3/1/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-11	DGWC-5	DGWC-14	DGWC-10	DGWC-12	DGWC-47	DGWC-48
3/2/2021	48.8	35.6	65.3	114	11.4				
3/3/2021							50.1	25.5	66
3/4/2021						75.8			
3/12/2021									
9/8/2021									
9/9/2021			66.8		11.1		29.2		
9/10/2021	47.7			123		82.4		24.4	68.7
9/13/2021		36							
1/18/2022									
1/20/2022									
1/21/2022								31	
1/24/2022				112					61.2
1/25/2022		36.8	70.2		12.4		28.5		
1/26/2022	48.4					76.8			
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022					11.2			24.8	65.3
9/14/2022				117					
9/15/2022		29.3	66.6			64.4	41.5		
9/16/2022									
9/19/2022	45.1								
9/20/2022									
1/31/2023									
2/1/2023					11.9				
2/2/2023						60.8			
2/3/2023	43.8							23.7	64.1
2/6/2023			58.8				28.3		
2/7/2023		26		139					
9/6/2023									
9/7/2023									
9/8/2023			58.6		12				
9/11/2023						72.7	30.8		
9/12/2023		30						21.9	
9/13/2023				152					55
1/30/2024									
1/31/2024									
2/1/2024		30.6	55.1	146					
2/2/2024						79.3	31.7		
2/5/2024					12.7			23.9	61.7
2/6/2024									
9/4/2024									
9/5/2024							32.9	23.8	
9/6/2024				126					
9/9/2024		23.4	61.2						
9/10/2024					11.1				53.8
9/11/2024	43.2					198			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-22	DGWC-20	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	65.6								
9/2/2016		61.6	96.3	70.2					
9/6/2016					33.6	44			
9/7/2016							43.6	8.61	
12/6/2016									
12/7/2016	68.3		91.9		34.7	39.8			
12/8/2016		60.1		70.1			45.8	7.92	
3/28/2017									8.31
3/29/2017	68	64.7	95.7						
3/30/2017				72.5	36.9	46.3		9.56	
3/31/2017							48.3		
5/11/2017									
5/12/2017									8.04
5/15/2017									
6/15/2017									
6/16/2017									7.66
7/11/2017									7.71
7/12/2017	70		100	80.4	38.4	47.8		10.4	
7/13/2017		67.2					52.3		
8/8/2017									
10/24/2017									6.86
10/25/2017	77	66.8	97.3	75.6	36.2		50.9	10.9	
10/26/2017									
11/15/2017						49.3			
2/27/2018									<25
2/28/2018	72	62.3	86.3	73.2	35	<25	45.1	<25	
3/1/2018									
3/2/2018									
3/8/2018									
7/10/2018									5.7
7/11/2018	82.7		92.4	82.3	37.5		47.8	13 (J)	
7/12/2018		71							
11/6/2018									5.7
11/7/2018	81.7	60.9	85.9	78.5	11.4	44.8	45.5	37	
11/8/2018									
3/12/2019									5.5
3/13/2019	76.9		86.4	79.9		42.1		11.9 (J)	
3/14/2019		64.8			34.7		43.5		
10/15/2019									5.1
10/16/2019	85.7					43.8			
10/17/2019			86.9	79.8	37		44.1		
10/18/2019		61.7						12.9	
3/2/2020									5.8
3/3/2020	86.8	68.7		87.4	37.8	49.3			
3/4/2020			103				48.8	15.8	
3/9/2020									
9/22/2020	103		79.2				43.8		5.4
9/23/2020					35.6	39			
9/24/2020		62.6		80				12.7	
3/1/2021									5.9

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-22	DGWC-20	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
3/2/2021	93.2		74.7		36	40.5			
3/3/2021		62.3		82.1			38.8	14.3	
3/4/2021									
3/12/2021									
9/8/2021									6.1
9/9/2021	93.6			75.3	34.4	38.2			
9/10/2021		62.3	69.8						
9/13/2021							38.9	15.8	
1/18/2022									6.6
1/20/2022		67.3		83.7			38.1		
1/21/2022			104						
1/24/2022					33.2			15.6	
1/25/2022	101					43.2			
1/26/2022									
1/28/2022									
9/7/2022									6.4
9/8/2022									
9/13/2022					34.4		34.2		
9/14/2022	105							16.4	
9/15/2022			70.1	82.2		36.7			
9/16/2022		66.2							
9/19/2022									
9/20/2022									
1/31/2023									5.7
2/1/2023						33.6	32.7		
2/2/2023					32.2				
2/3/2023									
2/6/2023	105	56.7						17.5	
2/7/2023			110	84.8					
9/6/2023									7
9/7/2023									
9/8/2023	115				34.3	32.7			
9/11/2023		61.2	114	88.4					
9/12/2023									
9/13/2023							33.6	19.8	
1/30/2024							29.9		6.1
1/31/2024		57.1		85.3		30.8			
2/1/2024	113		112						
2/2/2024									
2/5/2024					32.8				
2/6/2024								19.7	
9/4/2024				81.9					6.5
9/5/2024	106		110		30.2	28.9	33		
9/6/2024									
9/9/2024		55.5							
9/10/2024								16.4	
9/11/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	229	30.8	5.14		
3/29/2017					
3/30/2017				68.1	103
3/31/2017					
5/11/2017		35.8			102
5/12/2017	233			71.1	
5/15/2017			6.5		
6/15/2017	224	36	5.38	65.9	96.2
6/16/2017					
7/11/2017	249		5.96		98.4
7/12/2017		40.3		70	
7/13/2017					
8/8/2017			5.2		
10/24/2017	232	30.3	4.93		86
10/25/2017					
10/26/2017				67.2	
11/15/2017					
2/27/2018	245		<25		66.7
2/28/2018					
3/1/2018				66.5	
3/2/2018					
3/8/2018		39.8			
7/10/2018			5		
7/11/2018					55
7/12/2018		34.7		72	
11/6/2018	284		5.5		54.5
11/7/2018		28.6			
11/8/2018				73.5	
3/12/2019	295		5.1		52.2
3/13/2019		26.7			
3/14/2019				73.2	
10/15/2019	276		5.1		
10/16/2019		17.7			
10/17/2019					47.2
10/18/2019				67.7	
3/2/2020	320		5.3		
3/3/2020					48.4
3/4/2020				69.8	
3/9/2020		23.7			
9/22/2020	263	15.5	5		
9/23/2020					44.4
9/24/2020				73.7	
3/1/2021	322		4.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
3/2/2021					44
3/3/2021				68.1	
3/4/2021					
3/12/2021		18.4			
9/8/2021					
9/9/2021		18.3	5.3	76.4	42
9/10/2021	285				
9/13/2021					
1/18/2022			6.1		
1/20/2022				82.7	44.6
1/21/2022					
1/24/2022	299				
1/25/2022					
1/26/2022					
1/28/2022		19.5			
9/7/2022			5.9		
9/8/2022		17.2			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	376				
9/20/2022				90	37.8
1/31/2023			6.2		
2/1/2023		14.1			
2/2/2023					
2/3/2023	287				
2/6/2023				86.4	35.3
2/7/2023					
9/6/2023			6.6		
9/7/2023		16.3			
9/8/2023					
9/11/2023				95.4	
9/12/2023					
9/13/2023	279				33.6
1/30/2024		13.7			
1/31/2024				95.7	
2/1/2024	268				33.3
2/2/2024					
2/5/2024					
2/6/2024					
9/4/2024			6.3		
9/5/2024				105	
9/6/2024	219				
9/9/2024					31.6
9/10/2024					
9/11/2024		10.6			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-11	DGWC-10	DGWC-12	DGWC-19	DGWC-48
8/30/2016	9.7	6							
8/31/2016			3.1	8.6	11	11			
9/1/2016							13	41	18
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	3.1	8	11	10			
12/7/2016							20 (O)	41	
12/8/2016									17
3/28/2017		6.6		9.5					
3/29/2017	9.9		3.8		12	11	13	42	
3/30/2017									16
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7	6.9		9					
7/12/2017			2.9		11	11	12	41	
7/13/2017									15
8/8/2017									
10/24/2017	9.9	6.7			12	11			
10/25/2017			3.5	9.4			13	41	
10/26/2017									14
11/15/2017						12			
2/27/2018	9.5	8.2	3.4	9.7	12.7	10.8	11.7		
2/28/2018								36.4	
3/1/2018									
3/2/2018									12.8
3/8/2018									
7/10/2018									
7/11/2018		10.5	3.2				11.3	38.2	
7/12/2018									11.7
11/6/2018	10.5	8.7		10.2	15.2	12.3			
11/7/2018			3.1				11.8	38.8	11.4
11/8/2018									
3/12/2019	10.7	8.5		10.6	14.5	12.1	12.1		
3/13/2019			3.4					40.1	
3/14/2019									10.2
10/15/2019					15.6	9.4	11.6		
10/16/2019	10.4		3.5	11.6				33.2	
10/17/2019		10							
10/18/2019									9.6
3/2/2020				10.5	15		8.9		
3/3/2020	9.6	6.6	4.1			8.4		30.9	
3/4/2020									9.1
3/9/2020									
9/22/2020		8	3.2	10.5	16		10.8	27.6	
9/23/2020	9.1								8
9/24/2020						5.9			
3/1/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-11	DGWC-10	DGWC-12	DGWC-19	DGWC-48
3/2/2021	8.6	8.4	3.5	9.8	14.4			27	
3/3/2021							10.3		14.2
3/4/2021						7.2			
3/12/2021									
9/8/2021									
9/9/2021			3.3		13.6		8.5	25.4	
9/10/2021		9		9.9		8.2			10.9
9/13/2021	8.2								
1/18/2022									
1/20/2022									
1/21/2022									
1/24/2022				9.9					11.3
1/25/2022	9.3		3.7		14.1		8.1	23.7	
1/26/2022		9.1				9			
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			3.5						8.9
9/14/2022				11.2				18.7	
9/15/2022	8.3				12.1	8.2	8.2		
9/16/2022									
9/19/2022		13.2							
9/20/2022									
1/31/2023									
2/1/2023			4.5						
2/2/2023						9.9			
2/3/2023		14.7							8.2
2/6/2023					12.1		6.8	17.9	
2/7/2023	8.7			10					
9/6/2023									
9/7/2023									
9/8/2023			3.5		11.2			15.8	
9/11/2023						10.1	6.5		
9/12/2023	9.5								
9/13/2023				9.5					6.5
1/30/2024									
1/31/2024									
2/1/2024	10.5			11.6	11.1			14.2	
2/2/2024						9.2	6.9		
2/5/2024			3.7						6.1
2/6/2024									
9/4/2024									
9/5/2024							7.9	15.6	
9/6/2024				12.4					
9/9/2024	10.2				11				
9/10/2024			3.8						5.8
9/11/2024		10.4				11.6			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-70A (bg)
8/30/2016									
8/31/2016									
9/1/2016	12								
9/2/2016		15	25	30					
9/6/2016					16	19			
9/7/2016							17	33	
12/6/2016									
12/7/2016		16			14	20			
12/8/2016	12		24	26			19	32	
3/28/2017									3.8
3/29/2017		17		30					
3/30/2017			24		16	21	20		
3/31/2017	9.1							33	
5/11/2017									
5/12/2017									
5/15/2017									2.2
6/15/2017									2
6/16/2017									
7/11/2017									2.1
7/12/2017		18	23		14	21	18		
7/13/2017	5.7			29				33	
8/8/2017									2.2
10/24/2017									2.4
10/25/2017		20	23	29		21	19	32	
10/26/2017	6.6								
11/15/2017					16				
2/27/2018									2.5
2/28/2018		18.6	19.9	23.4	2.7	20.1	17	29	
3/1/2018	10.7								
3/2/2018									
3/8/2018									
7/10/2018									1.9
7/11/2018		20.4	20.9			21.4	19.5	29.3	
7/12/2018	9.5			26.1					
11/6/2018									2.3
11/7/2018	8.6	21.5	20.5	25.8	16.7	22.4	21.4	28.6	
11/8/2018									
3/12/2019									2.5
3/13/2019		24.8	21.3		12.4		19.9		
3/14/2019	6.6			26.3		24		24.8	
10/15/2019									2.2
10/16/2019					17.4				
10/17/2019	7	24.9	20.1			22		25.8	
10/18/2019				23.4			22		
3/2/2020									1.9
3/3/2020			19.7	21.8	9.4	22.7			
3/4/2020	4.4	27.8					19.6	23.6	
3/9/2020									
9/22/2020		25.8						22.1	1.9
9/23/2020	3.3				12.6	22.4			
9/24/2020			20	21.5			22.7		
3/1/2021									1.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-70A (bg)
3/2/2021		28			13.1	22.8			
3/3/2021	2.9		19.7	20.6			20.9	20.8	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			20.2		12.9	21.9			1.9
9/10/2021	2.4	26.2		17.3					
9/13/2021							18.2	17.1	
1/18/2022									1.9
1/20/2022			18.6	18.1				18.2	
1/21/2022	3.1	27							
1/24/2022						21.5	19.2		
1/25/2022					14.3				
1/26/2022									
1/28/2022									
9/7/2022									2.1
9/8/2022									
9/13/2022	3.3					21.9		18.7	
9/14/2022							19		
9/15/2022		26.2	17.6		13.7				
9/16/2022				18					
9/19/2022									
9/20/2022									
1/31/2023									2.2
2/1/2023					12.2			19.3	
2/2/2023						22.1			
2/3/2023	2.6								
2/6/2023				16.9			18.8		
2/7/2023		27.9	18.6						
9/6/2023									2.2
9/7/2023									
9/8/2023					11.7	20			
9/11/2023		26.9	17.8	16.8					
9/12/2023	2.4								
9/13/2023							18.2	18.4	
1/30/2024								18.1	
1/31/2024			17.8	16	11.1				
2/1/2024		27.2							
2/2/2024									
2/5/2024	2.2					20.4			
2/6/2024							18		
9/4/2024			18						2.2
9/5/2024	3.4	26.2			11.5	20.5		17.8	
9/6/2024									
9/9/2024				16.3					
9/10/2024							18.3		
9/11/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	29	3.6	3.7		
3/29/2017					
3/30/2017				4.8	17
3/31/2017					
5/11/2017			2.3	4.4	
5/12/2017	29	3.8			17
5/15/2017					
6/15/2017	28		2.6	4.8	16
6/16/2017		3.4			
7/11/2017	28	3.1		4.6	
7/12/2017			2.3		16
7/13/2017					
8/8/2017					
10/24/2017	28	3.2	2.7	4.4	
10/25/2017					
10/26/2017					17
11/15/2017	27	3.1	2.2		
2/27/2018	24.6	3.2		4.1	
2/28/2018					
3/1/2018					14.8
3/2/2018					
3/8/2018			2.4		
7/10/2018		2.5			
7/11/2018				3.3	
7/12/2018			2.2		15.2
11/6/2018	24.8	2.6		3.7	
11/7/2018			2.3		
11/8/2018					14.6
3/12/2019	24.2	3.3		3.1	
3/13/2019			3.6		
3/14/2019					15.2
10/15/2019	20.9	3.3			
10/16/2019			2		
10/17/2019				2.8	
10/18/2019					14.4
3/2/2020	18.7	3			
3/3/2020				2.3	
3/4/2020					13.9
3/9/2020			1.8		
9/22/2020	17	5.2	1.6		
9/23/2020				2.1	
9/24/2020					13.7
3/1/2021	15	3.9			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
3/2/2021				2.1	
3/3/2021					14
3/4/2021					
3/12/2021			2		
9/8/2021		5.9			
9/9/2021			1.8	2.1	12.3
9/10/2021	13.9				
9/13/2021					
1/18/2022		5.9			
1/20/2022				2	12
1/21/2022					
1/24/2022	12.5				
1/25/2022					
1/26/2022					
1/28/2022			1.8		
9/7/2022		8.2			
9/8/2022			1.6		
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	11.2				
9/20/2022				2	11.6
1/31/2023		7.3			
2/1/2023			1.9		
2/2/2023					
2/3/2023	11				
2/6/2023				2.1	12.4
2/7/2023					
9/6/2023		7.8			
9/7/2023			1.7		
9/8/2023					
9/11/2023					12
9/12/2023					
9/13/2023	9.4			1.9	
1/30/2024		8.2	1.6		
1/31/2024					12.5
2/1/2024	8.7			1.9	
2/2/2024					
2/5/2024					
2/6/2024					
9/4/2024		9.4			
9/5/2024					11.7
9/6/2024	7.5				
9/9/2024				2.1	
9/10/2024					
9/11/2024			1.8		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-48	DGWC-47	DGWC-12
8/30/2016	0.39	0.78							
8/31/2016			1	1	0.06 (J)	0.06 (J)			
9/1/2016							1.5	1.8	0.02 (J)
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	0.47	1.1	0.76	1.3	0.06 (J)	0.1 (J)			
12/7/2016									0.16 (J)
12/8/2016							1.6	1.1	
3/28/2017		1.1	1.2						
3/29/2017	0.51			1.5	0.04 (J)	0.02 (J)			0.1 (J)
3/30/2017							0.86		
3/31/2017								0.88	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	0.2 (J)	1.1	0.7						
7/12/2017				1.7	0.03 (J)	<0.1			0.2 (J)
7/13/2017							1.1	0.84	
8/8/2017									
10/24/2017	0.82	1.7		2.1	<0.1				
10/25/2017			1.4			<0.1			0.6
10/26/2017							1.7	1	
11/15/2017				1.4					
2/27/2018	0.59	1.2	1.3	2.3	<0.1	<0.1			0.34
2/28/2018									
3/1/2018								1.4	
3/2/2018							1.1		
3/8/2018									
7/10/2018									
7/11/2018		1.3				<0.1			<0.1
7/12/2018							0.65	0.96	
11/6/2018	0.35	1.1	<0.3 (J)	2	<0.1				
11/7/2018						<0.1	0.63	0.74	<0.3 (J)
11/8/2018									
3/12/2019	0.35	0.97	0.31	1.7	0.052 (J)				0.065 (J)
3/13/2019						0.042 (J)			
3/14/2019							1.4	1.6	
8/27/2019		0.68	0.32	1.4	<0.1	<0.1			<0.1
8/28/2019	0.098 (J)								
8/29/2019							0.78	0.52	
10/15/2019				1.4	<0.1				<0.1
10/16/2019	0.14 (J)		0.32			0.052 (J)			
10/17/2019		1.2						0.46	
10/18/2019							0.46		
3/2/2020			0.33		0.064 (J)				0.071 (J)
3/3/2020	<0.1	1.4		1.5		<0.1			
3/4/2020							0.7	0.74	
3/9/2020									
8/11/2020		1.3		1.4	<0.1	<0.1			<0.1

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-48	DGWC-47	DGWC-12
8/12/2020	0.056 (J)		0.13					0.22	
8/13/2020							0.47		
8/14/2020									
9/22/2020		0.99	0.12		<0.1	<0.1			<0.1
9/23/2020	<0.1						0.32	0.11	
9/24/2020				0.97					
3/1/2021									
3/2/2021	0.059 (J)	0.93	0.15		<0.1	<0.1			
3/3/2021							0.67	0.71	0.085 (J)
3/4/2021				1.8					
3/12/2021									
9/8/2021									
9/9/2021					<0.1	<0.1			0.099 (J)
9/10/2021		2	0.16	2.2			0.47	0.22	
9/13/2021	0.069 (J)								
1/18/2022									
1/20/2022									
1/21/2022								0.64	
1/24/2022			0.19				0.59		
1/25/2022	<0.1				<0.1	<0.1			0.093 (J)
1/26/2022		1.2		1.8					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022						0.059 (J)	0.43	0.47	
9/14/2022			0.27						
9/15/2022	0.077 (J)			0.84	0.064 (J)				0.078 (J)
9/16/2022									
9/19/2022		0.8							
9/20/2022									
1/31/2023									
2/1/2023						0.067 (J)			
2/2/2023				1.1					
2/3/2023		0.9					0.48	0.45	
2/6/2023					<0.1				0.1
2/7/2023	0.13		0.22						
9/6/2023									
9/7/2023									
9/8/2023					<0.1	<0.1			
9/11/2023				1.3					0.13
9/12/2023	0.091 (J)							0.51	
9/13/2023			0.14				0.51		
1/30/2024									
1/31/2024									
2/1/2024	0.064 (J)		0.12		<0.1				
2/2/2024				1.2					0.12
2/5/2024						0.054 (J)	0.43	0.53	
2/6/2024									
9/4/2024									
9/5/2024								0.48	0.064 (J)
9/6/2024			0.23						
9/9/2024	0.076 (J)				0.056 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-48	DGWC-47	DGWC-12
9/10/2024						0.051 (J)	0.43		
9/11/2024		0.81		1.6					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	0.75								
9/2/2016		0.3	0.07 (J)	0.66					
9/6/2016					0.17 (J)	0.11 (J)			
9/7/2016							0.32	0.02 (J)	
12/6/2016									
12/7/2016	0.37			0.66	0.3	0.11 (J)			
12/8/2016		0.12 (J)	0.14 (J)				0.31	0.06 (J)	
3/28/2017									0.17 (J)
3/29/2017	0.35	0.11 (J)		0.34					
3/30/2017			<0.1		0.12 (J)	<0.1	0.1 (J)		
3/31/2017								<0.1	
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									0.02 (J)
6/16/2017									
7/11/2017									0.02 (J)
7/12/2017	0.34		0.04 (J)	0.41	0.13 (J)	0.07 (J)	0.27 (J)		
7/13/2017		0.09 (J)						<0.1	
8/8/2017									
10/24/2017									<0.1
10/25/2017	0.9	0.25 (J)	0.34	0.68		0.26 (J)	0.49	<0.1	
10/26/2017									
11/15/2017					0.44				0.79
2/27/2018									<0.1
2/28/2018	1.2	<0.1	<0.1	0.76	0.18	<0.1	0.54	<0.1	
3/1/2018									
3/2/2018									
3/8/2018									
7/10/2018									
7/11/2018	0.37		<0.1	1.3		<0.1	0.15 (J)	<0.1	
7/12/2018		0.13 (J)							
11/6/2018									<0.1
11/7/2018	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.3 (J)	<0.1	<0.3 (J)	<0.1	
11/8/2018									
3/12/2019									0.082 (J)
3/13/2019	0.22 (J)		0.043 (J)	0.45	0.13 (J)		0.084 (J)		
3/14/2019		0.042 (J)				0.057 (J)		<0.1	
8/27/2019							0.24 (J)		<0.1
8/28/2019	0.2				0.091 (J)	<0.1		<0.1	
8/29/2019		0.054 (J)	0.079 (J)	0.78					
10/15/2019									<0.1
10/16/2019	0.23 (J)				0.14 (J)				
10/17/2019			<0.1	0.26 (J)		0.079 (J)		<0.1	
10/18/2019		<0.1					0.086 (J)		
3/2/2020									<0.1
3/3/2020	0.056 (J)	<0.1	<0.1		0.078 (J)	<0.1			
3/4/2020				1.5			<0.1	<0.1	
3/9/2020									
8/11/2020	0.2								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/12/2020					0.051 (J)				<0.1
8/13/2020				0.9		<0.1		<0.1	
8/14/2020		<0.1	<0.1				0.069 (J)		
9/22/2020	0.084 (J)			0.15				<0.1	<0.1
9/23/2020					0.058 (J)	<0.1			
9/24/2020		<0.1	<0.1				0.056 (J)		
3/1/2021									<0.1
3/2/2021	0.19			1.4	0.084 (J)	<0.1			
3/3/2021		<0.1	<0.1				0.085 (J)	<0.1	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021	0.18		<0.1		0.083 (J)	<0.1			
9/10/2021		<0.1		0.25					<0.1
9/13/2021							0.063 (J)	<0.1	
1/18/2022									
1/20/2022		<0.1	<0.1					<0.1	
1/21/2022				1.3					
1/24/2022						<0.1	<0.1		<0.1
1/25/2022	0.16				0.063 (J)				
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022						0.065 (J)		<0.1	
9/14/2022	0.18						0.1		
9/15/2022			0.087 (J)	0.69	0.095 (J)				
9/16/2022		0.068 (J)							
9/19/2022									0.061 (J)
9/20/2022									
1/31/2023									
2/1/2023					0.09 (J)			<0.1	
2/2/2023						0.065 (J)			
2/3/2023									0.096 (J)
2/6/2023	0.22	0.057 (J)					0.096 (J)		
2/7/2023			0.059 (J)	1.1					
9/6/2023									
9/7/2023									
9/8/2023	0.17				0.055 (J)	<0.1			
9/11/2023		0.054 (J)	0.054 (J)	1.5					
9/12/2023									
9/13/2023							0.1	<0.1	<0.1
1/30/2024								<0.1	
1/31/2024		<0.1	<0.1		0.079 (J)				
2/1/2024	0.19			1.4					<0.1
2/2/2024									
2/5/2024						0.065 (J)			
2/6/2024							0.1		
9/4/2024			0.065 (J)						
9/5/2024	0.18			1.8	0.079 (J)	0.061 (J)		<0.1	
9/6/2024									0.051 (J)
9/9/2024		0.067 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
9/10/2024							0.11		
9/11/2024									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.06 (J)	0.12 (J)			1.2 (O)
3/29/2017					
3/30/2017			0.12 (J)	0.06 (J)	
3/31/2017					
5/11/2017		0.07 (J)		0.06 (J)	
5/12/2017	<0.1		0.36		
5/15/2017					0.005 (J)
6/15/2017		0.19 (J)	0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017	0.008 (J)				
7/11/2017	0.007 (J)			0.04 (J)	0.06 (J)
7/12/2017		0.1 (J)	0.22 (J)		
7/13/2017					
8/8/2017					0.04 (J)
10/24/2017	<0.1	0.06 (J)		0.43	<0.1
10/25/2017					
10/26/2017			0.66		
11/15/2017	<0.1	0.05 (J)			
2/27/2018	<0.1			0.28	<0.1
2/28/2018					
3/1/2018			0.18		
3/2/2018					
3/8/2018		<0.1			
7/10/2018	<0.1				0.082 (J)
7/11/2018				0.6	
7/12/2018		0.071 (J)	0.25 (J)		
11/6/2018	<0.1			<0.1	<0.1
11/7/2018		<0.1			
11/8/2018			<0.3 (J)		
3/12/2019	<0.1			0.052 (J)	0.039 (J)
3/13/2019		0.13 (J)			
3/14/2019			0.092 (J)		
8/27/2019	<0.1			<0.1	<0.1
8/28/2019		0.42			
8/29/2019			0.095 (J)		
10/15/2019	<0.1				<0.1
10/16/2019		0.11 (J)			
10/17/2019				0.042 (J)	
10/18/2019			0.079 (J)		
3/2/2020	<0.1				<0.1
3/3/2020				<0.1	
3/4/2020			0.075 (J)		
3/9/2020		0.1 (J)			
8/11/2020	<0.1			<0.1	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/12/2020					
8/13/2020		0.062 (J)	0.1		
8/14/2020					
9/22/2020	<0.1	0.099 (J)			<0.1
9/23/2020				<0.1	
9/24/2020			0.075 (J)		
3/1/2021	<0.1				<0.1
3/2/2021				<0.1	
3/3/2021			0.063 (J)		
3/4/2021					
3/12/2021		0.076 (J)			
9/8/2021	<0.1				
9/9/2021		0.099 (J)	0.084 (J)	0.053 (J)	<0.1
9/10/2021					
9/13/2021					
1/18/2022	<0.1				<0.1
1/20/2022			<0.1	<0.1	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		0.08 (J)			
9/7/2022	0.056 (J)				0.061 (J)
9/8/2022		0.11			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022			0.11	0.076 (J)	
1/31/2023	0.05 (J)				0.053 (J)
2/1/2023		0.1			
2/2/2023					
2/3/2023					
2/6/2023			0.076 (J)	0.072 (J)	
2/7/2023					
9/6/2023	<0.1				<0.1
9/7/2023		0.082 (J)			
9/8/2023					
9/11/2023			0.1		
9/12/2023					
9/13/2023				0.083 (J)	
1/30/2024	<0.1	0.07 (J)			
1/31/2024			0.074 (J)		
2/1/2024				0.067 (J)	
2/2/2024					
2/5/2024					
2/6/2024					
9/4/2024	0.06 (J)				0.059 (J)
9/5/2024			0.089 (J)		
9/6/2024					
9/9/2024				0.093 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
9/10/2024					
9/11/2024		0.06 (J)			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-5	DGWC-14	DGWC-11	DGWC-10	DGWC-19	DGWC-48	DGWC-47
8/30/2016	4.08	5.33							
8/31/2016			4.31	5.68	5.83	4.58			
9/1/2016					5.67		4.64	4.7	5.11
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	4.15	5.39	4.43	5.63	5.91	4.9			
12/7/2016							4.63		
12/8/2016								4.58	5.71
3/28/2017	4.16		4.44						
3/29/2017		5.23		5.68	5.74	4.62	4.7		
3/30/2017								4.19	
3/31/2017									4.58
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	4.23	5.33	4.46						
7/12/2017				5.66	5.82	4.81	4.76		
7/13/2017								4.3	4.95
8/8/2017									
10/24/2017	4.06	5.05			5.79	4.8			
10/25/2017			4.54	6.18			4.66		
10/26/2017								4.39	4.41
11/15/2017						4.9			
2/27/2018	4.04	5.08	4.87	5.63	5.94	5.55			
2/28/2018							4.63		
3/1/2018									3.93
3/2/2018								4.14	
3/8/2018									
7/10/2018		5.11	4.77		5.62	5.27			
7/11/2018	4.03			5.61			4.71		
7/12/2018								4.36	4.33
11/6/2018	4	5.13	4.89		5.69	5.3			
11/7/2018				5.58			4.69	4.23	4.48
11/8/2018									
3/12/2019	3.98	5.07	4.42		5.7	5.26			
3/13/2019				5.61			4.76		
3/14/2019								4.12	3.88
8/27/2019	4.02		4.83	5.58	5.55	5.14			
8/28/2019		5.11					4.85		
8/29/2019								4.28	4.35
9/17/2019									
10/15/2019					5.6	4.96			
10/16/2019		5.33	4.78	5.66			4.87		
10/17/2019	4.02								4.6
10/18/2019								4.22	
3/2/2020			4.8		5.62				
3/3/2020	4.07	5.12		5.73		4.77	4.89		
3/4/2020								4.27	3.86
3/9/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-5	DGWC-14	DGWC-11	DGWC-10	DGWC-19	DGWC-48	DGWC-47
8/11/2020	4			5.73	5.68	4.92	4.9		
8/12/2020		5.36	4.84						4.43
8/13/2020								4.26	
8/14/2020									
9/22/2020	4		4.83	5.7	5.54		4.91		
9/23/2020		5.21						4.64	4.4
9/24/2020						4.89			
3/1/2021									
3/2/2021	3.99	6.6	5	5.69	5.59		4.84		
3/3/2021								4.14	3.98
3/4/2021						5.27			
3/12/2021									
9/8/2021									
9/9/2021				5.7	5.59		4.82		
9/10/2021	3.98		4.89			5.05		4.3	4.1
9/13/2021		5.05							
1/18/2022									
1/20/2022									
1/21/2022									3.72
1/24/2022			4.79					4.03	
1/25/2022		5.16		5.69	5.54		4.79		
1/26/2022	3.68					4.9			
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				5.71				4.25	4.15
9/14/2022			4.75				4.81		
9/15/2022		5.2			5.52	4.87			
9/16/2022									
9/19/2022	3.98								
9/20/2022									
1/31/2023									
2/1/2023				5.87					
2/2/2023						4.67			
2/3/2023	4.02							4.2	3.88
2/6/2023					5.45		4.82		
2/7/2023		5.23	4.89						
9/6/2023									
9/8/2023				5.67	5.44		4.78		
9/11/2023						4.56			
9/12/2023		5.02							3.99
9/13/2023			4.74					4.06	
1/30/2024									
1/31/2024									
2/1/2024		5.21	4.78		5.49		4.98		
2/2/2024						4.72			
2/5/2024				5.69				4.33	4.11
2/6/2024									
9/4/2024									
9/5/2024							4.79		4.19
9/6/2024			4.74						
9/9/2024		5.26			5.53				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-5	DGWC-14	DGWC-11	DGWC-10	DGWC-19	DGWC-48	DGWC-47
9/10/2024				5.68				4.35	
9/11/2024	3.96					4.58			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-12	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	5.74	4.7	5.7						
9/6/2016				5.69	5.79				
9/7/2016						5.35	5.05		
12/6/2016									
12/7/2016				5.96	5.94			5.65	
12/8/2016	6.03		5.64			5.41	5.12		
3/28/2017									6.01
3/29/2017	5.77	4.7						5.61	
3/30/2017			5.79	5.94	5.8		5.08		
3/31/2017						5.36			
5/11/2017									
5/12/2017									5.87
5/15/2017									
6/15/2017									6.03
6/16/2017									
7/11/2017									6.04
7/12/2017		4.67	5.71	5.84	5.81		5	5.81	
7/13/2017	5.71					5.27			
8/8/2017									
10/24/2017									5.99
10/25/2017	5.77	4.71	5.68		5.9	5.38	5.73	6.07	
10/26/2017									
11/15/2017				5.87					5.92
2/27/2018								5.73	6.03
2/28/2018	5.77	4.51	5.71	5.99	5.8	5.37	5.22		
3/1/2018									
3/2/2018									
3/8/2018									
7/10/2018				5.92					5.96
7/11/2018		4.68			5.87	5.19	5.07		
7/12/2018	5.62								
11/6/2018									5.97
11/7/2018	5.71	4.64	5.61	5.87	5.9	5.18	5.09	5.85	
11/8/2018									
3/12/2019								5.98	5.85
3/13/2019		4.65	5.62	5.79			5.07		
3/14/2019	5.67				5.77	5.1			
8/27/2019							4.96	5.55	5.84
8/28/2019				5.71	5.88	5.3			
8/29/2019	5.66	4.64	5.61						
9/17/2019								5.6	
10/15/2019								5.89	5.98
10/16/2019				5.69					
10/17/2019		4.64	5.57		5.76	5.2			
10/18/2019	5.61						5.08		
3/2/2020								6.13	5.88
3/3/2020	5.74		5.65	5.71	5.79		5.07		
3/4/2020		4.22				5.18	5.07		
3/9/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-12	DGWC-4
8/11/2020								5.69	
8/12/2020				5.68					5.93
8/13/2020		4.36			6.58	5.34			
8/14/2020	5.76		5.66				5.01		
9/22/2020		4.66				5.76		6	5.88
9/23/2020				5.72	5.85				
9/24/2020	5.69		5.64				5.1		
3/1/2021									5.82
3/2/2021		4.45		5.68	5.81				
3/3/2021	5.71		5.63			5.3	5.23	6.13	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			5.73	5.69	5.83			6.07	
9/10/2021	5.65	4.67							5.83
9/13/2021						5.15	5.06		
1/18/2022									
1/20/2022	5.72		5.73			5.27			
1/21/2022		4.47							
1/24/2022					6.06		5.15		5.79
1/25/2022				4.68				5.96	
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022					5.82	5.04			
9/14/2022							5.08		
9/15/2022		4.58	5.69	5.56				5.75	
9/16/2022	5.62								
9/19/2022									5.76
9/20/2022									
1/31/2023									
2/1/2023				5.54		5.17			
2/2/2023					5.86				
2/3/2023									5.77
2/6/2023	5.84						5.13	5.9	
2/7/2023		4.33	5.7						
9/6/2023									
9/8/2023				5.59	5.81				
9/11/2023	5.57	4.06	5.61					6.1	
9/12/2023						5.04			
9/13/2023							5.04		5.64
1/30/2024						5.18			
1/31/2024	5.71		5.67	5.74					
2/1/2024		4.49							5.67
2/2/2024								6.06	
2/5/2024					5.86				
2/6/2024							5.07		
9/4/2024			5.62						
9/5/2024		4.22		5.58	5.79	5.05		5.79	
9/6/2024									5.65
9/9/2024	5.6								

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-12	DGWC-4
9/10/2024							5.01		
9/11/2024									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	5.94	6.29			
3/29/2017					
3/30/2017			5.75	6.03	
3/31/2017					
5/11/2017		6.6	5.67		
5/12/2017	5.46			5.97	
5/15/2017					5.72
6/15/2017		6.41	5.75	6	5.74
6/16/2017	5.81				
7/11/2017	5.74		5.87		5.62
7/12/2017		5.91		5.97	
7/13/2017					
8/8/2017					5.6
10/24/2017	5.86	5.51	5.82		5.71
10/25/2017					
10/26/2017				5.9	
11/15/2017	5.77	6.5			
2/27/2018	5.66		5.85		5.5
2/28/2018					
3/1/2018				6.19	
3/2/2018					
3/8/2018		6.18			
7/10/2018	5.63				5.44
7/11/2018			5.85		
7/12/2018		6.33		5.97	
11/6/2018	5.79		5.88		5.71
11/7/2018		6.22			
11/8/2018				5.96	
3/12/2019	5.74		5.94		5.52
3/13/2019		6			
3/14/2019				5.99	
8/27/2019	5.87		5.94		5.53
8/28/2019		6.04			
8/29/2019				5.96	
9/17/2019					
10/15/2019	5.88				5.61
10/16/2019		6.69			
10/17/2019			6.16		
10/18/2019				5.99	
3/2/2020	5.77				5.54
3/3/2020			5.94		
3/4/2020				5.68	
3/9/2020		6.41			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/11/2020	5.96		6.04		5.86
8/12/2020					
8/13/2020		6.17		6	
8/14/2020					
9/22/2020	6.06	6.43			6.01
9/23/2020			5.99		
9/24/2020				6.19	
3/1/2021	5.8				5.43
3/2/2021			6.01		
3/3/2021				5.85	
3/4/2021					
3/12/2021		6.38			
9/8/2021	5.76				
9/9/2021		6.41	6	6	5.5
9/10/2021					
9/13/2021					
1/18/2022	5.51				5.5
1/20/2022			5.93	5.95	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		6.35			
9/7/2022	5.65				5.6
9/8/2022		6.32			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022			5.98	6	
1/31/2023	5.78				5.59
2/1/2023		6.42			
2/2/2023					
2/3/2023					
2/6/2023			5.17	5.97	
2/7/2023					
9/6/2023	5.82	6.51			5.5
9/8/2023					
9/11/2023				5.99	
9/12/2023					
9/13/2023			6.06		
1/30/2024	5.79	6.28			
1/31/2024				5.95	
2/1/2024			6.02		
2/2/2024					
2/5/2024					
2/6/2024					
9/4/2024	5.85				5.51
9/5/2024				6.11	
9/6/2024					
9/9/2024			6.07		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
9/10/2024					
9/11/2024		6.1			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-5	DGWC-10	DGWC-12	DGWC-47	DGWC-19
8/30/2016	300	450							
8/31/2016			44	200	400	400			
9/1/2016							390	470	240
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	320	480	45	190	460	190			
12/7/2016							350		250
12/8/2016								400	
3/28/2017	300				380				
3/29/2017		660	81 (O)	200		360	150		250
3/30/2017									
3/31/2017								350	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	320	440			440				
7/12/2017			44	210		390	350		250
7/13/2017								270	
8/8/2017									
10/24/2017	430	430		210		410			
10/25/2017			42		510		400		270
10/26/2017								290	
11/15/2017						390			
2/27/2018	327	340	41	220	453	335	356		
2/28/2018									244
3/1/2018								245	
3/2/2018									
3/8/2018									
7/10/2018									
7/11/2018	344		40.6				344		249
7/12/2018								240	
11/6/2018	438	307		302	556	356			
11/7/2018			41.3				298	143	266
11/8/2018									
3/12/2019	362	295		275	484	297	284		
3/13/2019			41.2						299
3/14/2019								238	
10/15/2019				273		263	270		
10/16/2019		235	42.1		493				323
10/17/2019	331							179	
10/18/2019									
3/2/2020				264	455		181		
3/3/2020	247	195	45.5			213			292
3/4/2020								176	
3/9/2020									
9/22/2020	282		40.2	267	423		183		310
9/23/2020		178						111	
9/24/2020						204			
3/1/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-5	DGWC-10	DGWC-12	DGWC-47	DGWC-19
3/2/2021	266	152	42.6	250	412				324
3/3/2021							203	143	
3/4/2021						240			
3/12/2021									
9/8/2021									
9/9/2021			42.3	247			126		315
9/10/2021	264				449	271		123	
9/13/2021		145							
1/18/2022									
1/20/2022									
1/21/2022								135	
1/24/2022					434				
1/25/2022		134	44.4	250			111		288
1/26/2022	245					241			
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			41.2					150	
9/14/2022					505				388
9/15/2022		134		287		229	191		
9/16/2022									
9/19/2022	274								
9/20/2022									
1/31/2023									
2/1/2023			45.9						
2/2/2023						235			
2/3/2023	277							138	
2/6/2023				273			142		379
2/7/2023		118			577				
9/6/2023									
9/7/2023									
9/8/2023			43.1	256					369
9/11/2023						258	132		
9/12/2023		134						119	
9/13/2023					576				
1/30/2024									
1/31/2024									
2/1/2024		138		260	539				394
2/2/2024						336	134		
2/5/2024			44					118	
2/6/2024									
9/4/2024									
9/5/2024							148	136	376
9/6/2024					558				
9/9/2024		103		229					
9/10/2024			43.8						
9/11/2024	281					727			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	540								
9/2/2016		300	140	580					
9/6/2016					180	170			
9/7/2016							370	230	
12/6/2016									
12/7/2016				650	180	160			
12/8/2016	540	280	260				350	240	
3/28/2017									17
3/29/2017			290	640					
3/30/2017	550	270			210	180		260	
3/31/2017							380		
5/11/2017									
5/12/2017									17
5/15/2017									
6/15/2017									
6/16/2017									11
7/11/2017									11
7/12/2017		290		630	170	170		230	
7/13/2017	500		300				370		
8/8/2017									
10/24/2017									9.6
10/25/2017		290	290	610	180		370	240	
10/26/2017	510								
11/15/2017						180			7.8
2/27/2018									7.4
2/28/2018		267	278	584	168	43.5	350	203	
3/1/2018									
3/2/2018	456								
3/8/2018									
7/10/2018									7.2
7/11/2018		277		501	154		366	234	
7/12/2018	409		197						
11/6/2018									7.3
11/7/2018	432	286	320	554	168	162	439	248	
11/8/2018									
3/12/2019									7
3/13/2019		312		539		179		268	
3/14/2019	450		297		195		404		
10/15/2019									7.4
10/16/2019						167			
10/17/2019		255		426	146		321		
10/18/2019	336		254					222	
3/2/2020									8.5
3/3/2020		269	242		148	157			
3/4/2020	368			434			329	222	
3/9/2020									
9/22/2020				408			320		6.5
9/23/2020	313				146	134			
9/24/2020		269	262					259	
3/1/2021									5.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
3/2/2021				458	148	131			
3/3/2021	312	264	252				329	237	
3/4/2021									
3/12/2021									
9/8/2021									6.1
9/9/2021		238			139	127			
9/10/2021	272		234	399					
9/13/2021							285	222	
1/18/2022									6.3
1/20/2022		223	221				281		
1/21/2022				406					
1/24/2022	265				127			225	
1/25/2022						116			
1/26/2022									
1/28/2022									
9/7/2022									7
9/8/2022									
9/13/2022	309				145		326		
9/14/2022								268	
9/15/2022		268		462		133			
9/16/2022			265						
9/19/2022									
9/20/2022									
1/31/2023									6.8
2/1/2023						97.5	313		
2/2/2023					137				
2/3/2023	301								
2/6/2023			235					262	
2/7/2023		285		517					
9/6/2023									7.2
9/7/2023									
9/8/2023					126	98.7			
9/11/2023		268	236	552					
9/12/2023									
9/13/2023	268						294	255	
1/30/2024							294		7.9
1/31/2024		267	224			100			
2/1/2024				628					
2/2/2024									
2/5/2024	258				124				
2/6/2024								261	
9/4/2024		253							9.9
9/5/2024				698	123	94.8	356		
9/6/2024									
9/9/2024			211						
9/10/2024	248							261	
9/11/2024									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	49	2.7	680		
3/29/2017					
3/30/2017				220	360
3/31/2017					
5/11/2017	21				340
5/12/2017			680	220	
5/15/2017		1			
6/15/2017	16	0.86 (J)	730	200	300
6/16/2017					
7/11/2017		1.4	740		330
7/12/2017	10			220	
7/13/2017					
8/8/2017		1.5			
10/24/2017	15	1.4	930		260
10/25/2017					
10/26/2017				220	
11/15/2017	3.8		820		
2/27/2018		0.54 (J)	811		189
2/28/2018					
3/1/2018				209	
3/2/2018					
3/8/2018	9.7				
7/10/2018		0.25 (J)			
7/11/2018					162
7/12/2018	8			202	
11/6/2018		<1 (J)	902		190
11/7/2018	12.8				
11/8/2018				292	
3/12/2019		0.35 (J)	987		159
3/13/2019	23.7				
3/14/2019				266	
10/15/2019		0.16 (J)	888		
10/16/2019	15.1				
10/17/2019					134
10/18/2019				203	
3/2/2020		<1	840		
3/3/2020					118
3/4/2020				204	
3/9/2020	9.5				
9/22/2020	13.5	<1	800		
9/23/2020					122
9/24/2020				215	
3/1/2021		<1	840		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
3/2/2021					112
3/3/2021				221	
3/4/2021					
3/12/2021	8.8				
9/8/2021					
9/9/2021	11.9	<1		217	110
9/10/2021			823		
9/13/2021					
1/18/2022		<1			
1/20/2022				211	101
1/21/2022					
1/24/2022			816		
1/25/2022					
1/26/2022					
1/28/2022	13.1				
9/7/2022		<1			
9/8/2022	12				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022			925		
9/20/2022				242	98.4
1/31/2023		<1			
2/1/2023	13.3				
2/2/2023					
2/3/2023			949		
2/6/2023				262	96.4
2/7/2023					
9/6/2023		<1			
9/7/2023	15.4				
9/8/2023					
9/11/2023				275	
9/12/2023					
9/13/2023			852		95.5
1/30/2024	13.4				
1/31/2024				279	
2/1/2024			824		97.6
2/2/2024					
2/5/2024					
2/6/2024					
9/4/2024		<1			
9/5/2024				303	
9/6/2024			708		
9/9/2024					89.1
9/10/2024					
9/11/2024	11.5				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-10	DGWC-11	DGWC-48	DGWC-47	DGWC-19
8/30/2016	693	414							
8/31/2016			106	524	525	307			
9/1/2016							845	704	396
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	138	690	595	358			
12/7/2016									400
12/8/2016							777	587	
3/28/2017		404		545					
3/29/2017	654		102		525	300			390
3/30/2017							775		
3/31/2017								545	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	679	436		612					
7/12/2017			118		598	382			360
7/13/2017							789	441	
8/8/2017									
10/24/2017	468	599			353	342			
10/25/2017			88	650					423
10/26/2017							753	444	
11/15/2017					582				
2/27/2018	520	482	99	698	542	393			
2/28/2018									440
3/1/2018								435	
3/2/2018							704		
3/8/2018									
7/10/2018									
7/11/2018		532	119						457
7/12/2018							705	372	
11/6/2018	456	554		809	512	412			
11/7/2018			113				678	348	461
11/8/2018									
3/12/2019	438	493		711	436	433			
3/13/2019			280						113
3/14/2019							625	378	
10/15/2019					447	461			
10/16/2019	374		104	702					500
10/17/2019		550						327	
10/18/2019							593		
3/2/2020				759		458			
3/3/2020	369	444	123		382				526
3/4/2020							630	334	
3/9/2020									
9/22/2020		461	105	716		481			513
9/23/2020	333						575	229	
9/24/2020					283				
3/1/2021									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-10	DGWC-11	DGWC-48	DGWC-47	DGWC-19
3/2/2021	291	449	105	730		456			513
3/3/2021							521	228	
3/4/2021					430				
3/12/2021									
9/8/2021									
9/9/2021			99			433			480
9/10/2021		466		792	474		532	274	
9/13/2021	306								
1/18/2022									
1/20/2022									
1/21/2022								289	
1/24/2022				810			500		
1/25/2022	281		120			465			694
1/26/2022		409			425				
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			80				527	277	
9/14/2022				850					572
9/15/2022	234				280	414			
9/16/2022									
9/19/2022		456							
9/20/2022									
1/31/2023									
2/1/2023			116						
2/2/2023					390				
2/3/2023		437					527	259	
2/6/2023						481			600
2/7/2023	223			939					
9/6/2023									
9/7/2023									
9/8/2023			156			451			634
9/11/2023					436				
9/12/2023	251							218	
9/13/2023				1020			473		
1/30/2024									
1/31/2024									
2/1/2024	272			948		463			656
2/2/2024					548				
2/5/2024			127				496	253	
2/6/2024									
9/4/2024									
9/5/2024								324	683
9/6/2024				977					
9/9/2024	241					444			
9/10/2024			117				469		
9/11/2024		458			1190				

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	568								
9/2/2016		1100	502	459					
9/6/2016					304	296			
9/7/2016							611	353	
12/6/2016									
12/7/2016	559	930			287	270			
12/8/2016			464	491			535	408	
3/28/2017									90
3/29/2017	550	923	462						
3/30/2017				436	312	287		338	
3/31/2017							661		
5/11/2017									
5/12/2017									92
5/15/2017									
6/15/2017									
6/16/2017									100
7/11/2017									59
7/12/2017	594	956		505	490 (O)	312		417	
7/13/2017			492				641		
8/8/2017									
10/24/2017									117
10/25/2017	571	854	477	474	290		626	343	
10/26/2017									
11/15/2017						325			90
2/27/2018	582								79
2/28/2018		888	476	480	313	84	616	364	
3/1/2018									
3/2/2018									
3/8/2018									
7/10/2018									88
7/11/2018	593	826		485	320		638	393	
7/12/2018			486						
11/6/2018									85
11/7/2018	504	834	511	516	325	314	626	408	
11/8/2018									
3/12/2019	465								74
3/13/2019		639		486		656		802	
3/14/2019			491		340		630		
10/15/2019	472								89
10/16/2019						296			
10/17/2019		751		498	319		612		
10/18/2019			480					403	
3/2/2020	338								67
3/3/2020			452	490	323	263			
3/4/2020		761					721	414	
3/9/2020									
9/22/2020	338	724					547		74
9/23/2020					317	278			
9/24/2020			455	494				411	
3/1/2021									62

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
3/2/2021		742			272	256			
3/3/2021	325		442	459			531	384	
3/4/2021									
3/12/2021									
9/8/2021									75
9/9/2021	275			396	292	246			
9/10/2021		678	468						
9/13/2021							508	424	
1/18/2022									76
1/20/2022			434	451			504		
1/21/2022		702							
1/24/2022					294			426	
1/25/2022	258					256			
1/26/2022									
1/28/2022									
9/7/2022									82
9/8/2022									
9/13/2022					289		540		
9/14/2022								434	
9/15/2022	377	618		440		216			
9/16/2022			462						
9/19/2022									
9/20/2022									
1/31/2023									87
2/1/2023						216	541		
2/2/2023					288				
2/3/2023									
2/6/2023	251		427					403	
2/7/2023		848		498					
9/6/2023									80
9/7/2023									
9/8/2023					274	217			
9/11/2023	302	960	460	519					
9/12/2023									
9/13/2023							545	480	
1/30/2024							551		86
1/31/2024			423	503		216			
2/1/2024		1050							
2/2/2024	274								
2/5/2024					288				
2/6/2024								477	
9/4/2024				537					97
9/5/2024	331	1220			283	211	522		
9/6/2024									
9/9/2024			443						
9/10/2024								476	
9/11/2024									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	1160	39	202		
3/29/2017					
3/30/2017				380	580
3/31/2017					
5/11/2017			241		573
5/12/2017	1230			438	
5/15/2017		88			
6/15/2017	1290	65	251	458	626
6/16/2017					
7/11/2017	1160	25			542
7/12/2017			218	461	
7/13/2017					
8/8/2017		53			
10/24/2017	229	49	671 (O)		523
10/25/2017					
10/26/2017				446	
11/15/2017	1330		241		
2/27/2018	1380	43			401
2/28/2018					
3/1/2018				454	
3/2/2018					
3/8/2018			213		
7/10/2018		80			
7/11/2018					334
7/12/2018			198	432	
11/6/2018	1480	65			334
11/7/2018			200		
11/8/2018				450	
3/12/2019	1490	43			297
3/13/2019			201		
3/14/2019				453	
10/15/2019	1520	70			
10/16/2019			126		
10/17/2019					302
10/18/2019				448	
3/2/2020	1540	52			
3/3/2020					277
3/4/2020				408	
3/9/2020			171		
9/22/2020	1400	46	142		
9/23/2020					267
9/24/2020				456	
3/1/2021	1140	25			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/4/2024 12:02 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2
3/2/2021					241
3/3/2021				425	
3/4/2021					
3/12/2021			124		
9/8/2021					
9/9/2021		53	131	455	260
9/10/2021	1520				
9/13/2021					
1/18/2022		54			
1/20/2022				453	238
1/21/2022					
1/24/2022	1520				
1/25/2022					
1/26/2022					
1/28/2022			155		
9/7/2022		34			
9/8/2022			129		
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022	1670				
9/20/2022				511	230
1/31/2023		163			
2/1/2023			116		
2/2/2023					
2/3/2023	1630				
2/6/2023				532	226
2/7/2023					
9/6/2023		46			
9/7/2023			123		
9/8/2023					
9/11/2023				582	
9/12/2023					
9/13/2023	1520				212
1/30/2024			130		
1/31/2024				564	
2/1/2024	1450				220
2/2/2024					
2/5/2024					
2/6/2024					
9/4/2024		61			
9/5/2024				632	
9/6/2024	1290				
9/9/2024					227
9/10/2024					
9/11/2024			122		

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.003796	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.0729	124	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.162	-155	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.04309	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.0317	101	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.1316	-112	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.1541	-183	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.5923	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.02799	-159	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.05925	-151	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.2786	-156	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2202	-130	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-3.284	-142	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.25	165	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	1.696	110	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	3.884	129	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-5.884	-164	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	7.417	123	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-9	-4.842	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.1275	-132	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0.7154	111	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.8	-166	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	1.647	141	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-0.8128	-147	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-1.931	-161	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7147	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.308	-158	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.3065	87	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-9	0.6437	96	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.08979	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.1071	-140	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.02933	103	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.03918	-114	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.03208	-107	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1079	-98	-92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02022	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-0.4673	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-35.36	-119	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-10.67	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-7.609	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	19.09	135	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-27.83	-178	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-3.691	-86	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-10.35	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-30.86	-143	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-40.08	-165	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-51.11	-152	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-16.99	-135	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	17.7	95	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-43.7	-125	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	12.37	98	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	35.87	141	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.547	-99	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	16.66	89	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	50.16	84	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	-38.81	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-45.91	-167	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	48.99	143	74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**DGWA-53 (bg)**	**-0.003796**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWA-70A (bg)	0	28	81	No	20	50	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	0.001028	49	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-11**	**0.0729**	**124**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-12**	**-1.162**	**-155**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-13**	**-0.04309**	**-89**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-15	0	-6	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-17**	**0.0317**	**101**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-19**	**-0.1316**	**-112**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-2**	**-0.1541**	**-183**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-20**	**-0.5923**	**-150**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-21	0.1223	40	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.03483	24	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.09005	61	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.1604	69	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-42	0.01101	29	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-47**	**-0.02799**	**-159**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-48**	**-0.05925**	**-151**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-5	-0.3162	-72	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-8**	**-0.2786**	**-156**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-9**	**-0.2202**	**-130**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWA-53 (bg)**	**-3.284**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWA-70A (bg)	0.08606	31	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.2068	-38	-81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-1.053	-31	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	2.117	72	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-19**	**6.25**	**165**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-20	1.265	21	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-21**	**1.696**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-22	-0.6474	-41	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-23**	**3.884**	**129**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-4	8.801	57	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-48**	**-5.884**	**-164**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-5**	**7.417**	**123**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-9**	**-4.842**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWA-53 (bg)**	**-0.1275**	**-132**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWA-70A (bg)	-0.01924	-36	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWA-71 (bg)**	**0.7154**	**111**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-10	-0.1912	-43	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	0	1	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4371	-61	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.1428	32	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	-0.04451	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWC-19**	**-3.8**	**-166**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-20**	**1.647**	**141**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-21**	**-0.8128**	**-147**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-22**	**-1.931**	**-161**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-23**	**-0.7147**	**-150**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-42**	**-2.308**	**-158**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-5**	**0.3065**	**87**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-8	-0.07396	-31	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWC-9**	**0.6437**	**96**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	DGWA-53 (bg)	-0.005145	-51	-98	No	23	8.696	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0	44	87	No	21	57.14	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	6	98	No	23	73.91	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	-0.02647	-25	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.1188	88	92	No	22	4.545	n/a	n/a	0.01	NP
Fluoride (mg/L)	**DGWC-47**	**-0.08979**	**-121**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**DGWC-48**	**-0.1071**	**-140**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	DGWC-9	-0.02858	-18	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.01147	18	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02084	-54	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.005537	22	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	-0.02626	-46	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	-0.002594	-21	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-19**	**0.02933**	**103**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-20**	**-0.03918**	**-114**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-42**	**-0.03208**	**-107**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/4/2024, 12:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (SU)	**DGWC-47**	**-0.1079**	**-98**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.02012	-47	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.04532	67	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-8	0	-4	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-9**	**-0.02022**	**-121**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWA-53 (bg)	-0.3077	-24	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	0	-22	-81	No	20	50	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWA-71 (bg)**	**-0.4673**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-10	-15.85	-43	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	7.966	55	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-12**	**-35.36**	**-119**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-13**	**-10.67**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-15**	**-7.609**	**-150**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-17	2.818	45	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-19**	**19.09**	**135**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-2**	**-27.83**	**-178**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-20	-19.4	-50	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-21**	**-3.691**	**-86**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-22	-8.499	-63	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	7.177	72	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	12.71	46	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-42**	**-10.35**	**-94**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-47**	**-30.86**	**-143**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-48**	**-40.08**	**-165**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-5	13.47	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-8**	**-51.11**	**-152**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-9	-8.648	-47	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-16.99**	**-135**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	3	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-0.8828	-30	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-16.46	-44	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**17.7**	**95**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-43.7**	**-125**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-3.141	-52	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**12.37**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**35.87**	**141**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-35.45	-40	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	3.621	42	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**-6.547**	**-99**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**16.66**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**50.16**	**84**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.6	-73	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-47**	**-38.81**	**-140**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-45.91**	**-167**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**48.99**	**143**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	-0.9241	-4	-68	No	18	0	n/a	n/a	0.01	NP

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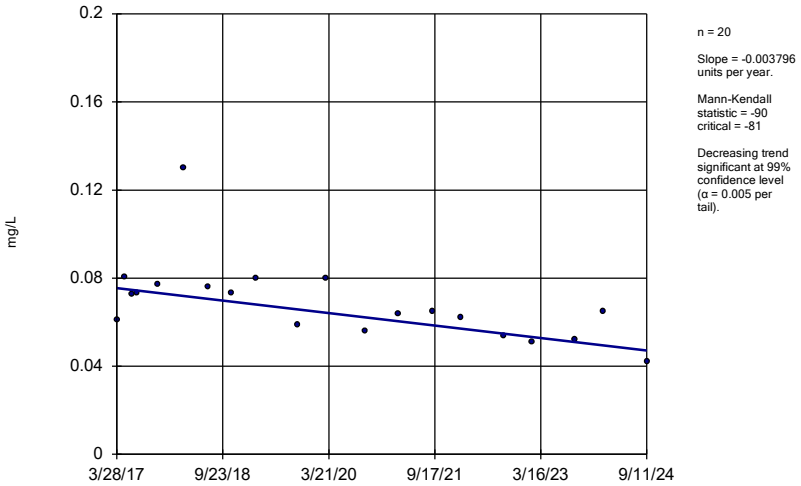
Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -0.003796 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 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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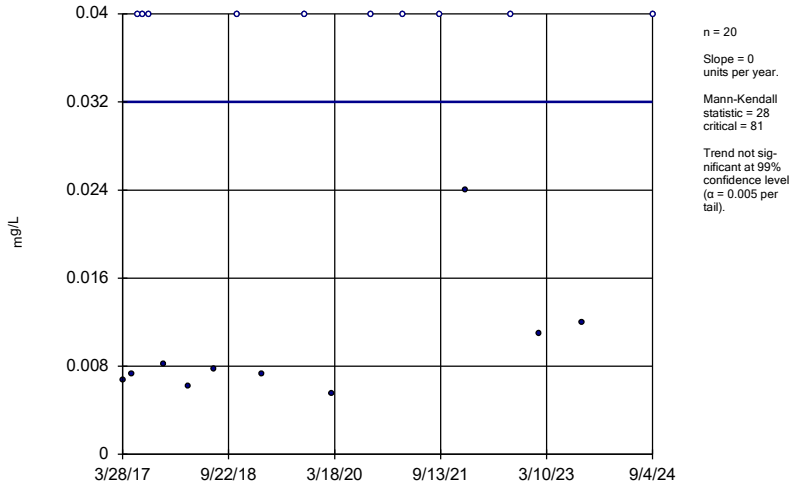
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 28
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

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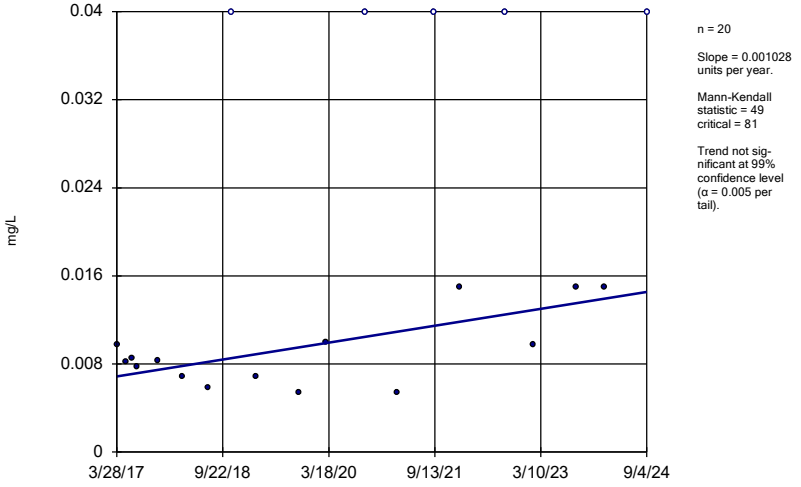
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = 0.001028 units per year.

Mann-Kendall statistic = 49
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

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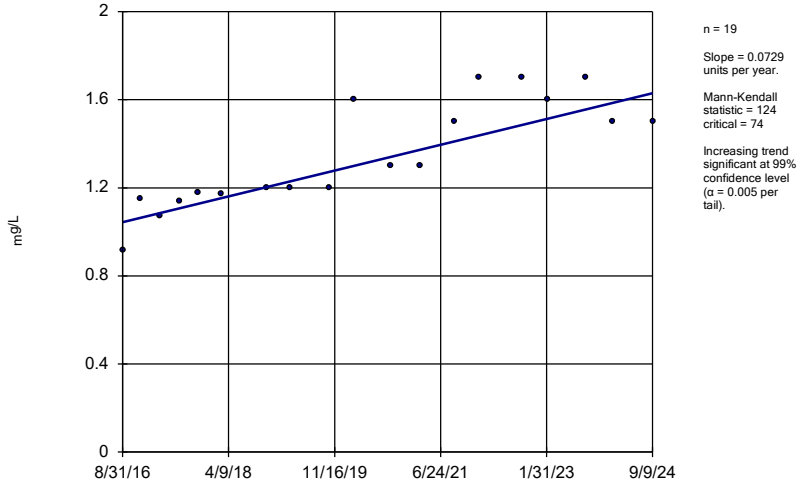
Sen's Slope Estimator

DGWC-11



n = 19

Slope = 0.0729 units per year.

Mann-Kendall statistic = 124
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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Plant McDonough Client: Southern Company Data: McDonough AP

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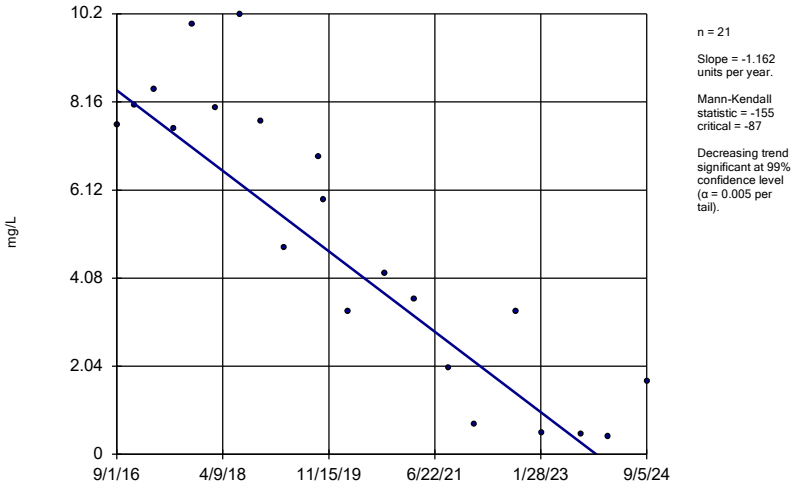
Sen's Slope Estimator

DGWC-12



n = 21

Slope = -1.162 units per year.

Mann-Kendall statistic = -155
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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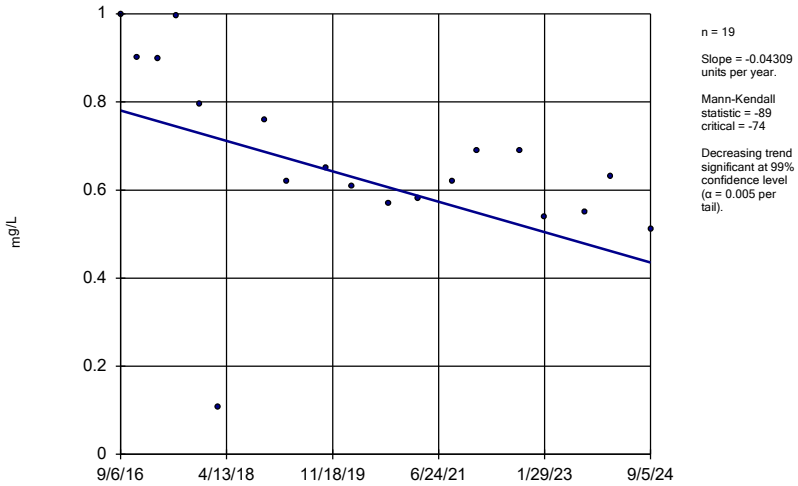
Sen's Slope Estimator

DGWC-13



n = 19

Slope = -0.04309 units per year.

Mann-Kendall statistic = -89
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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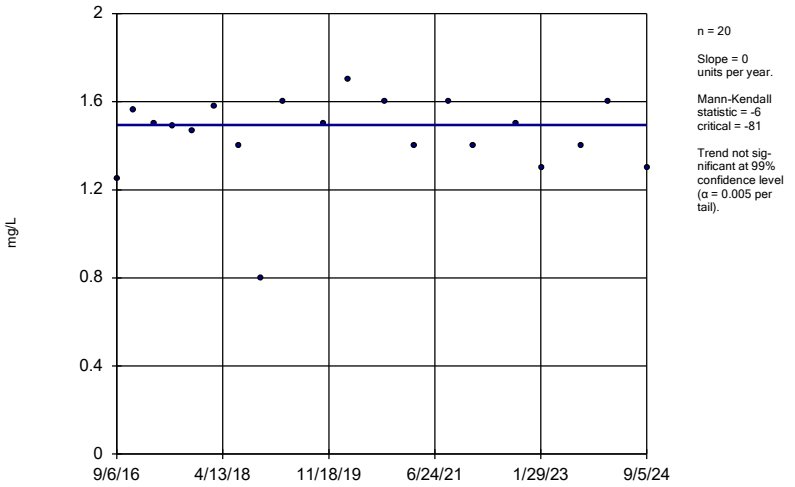
Sen's Slope Estimator

DGWC-15



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 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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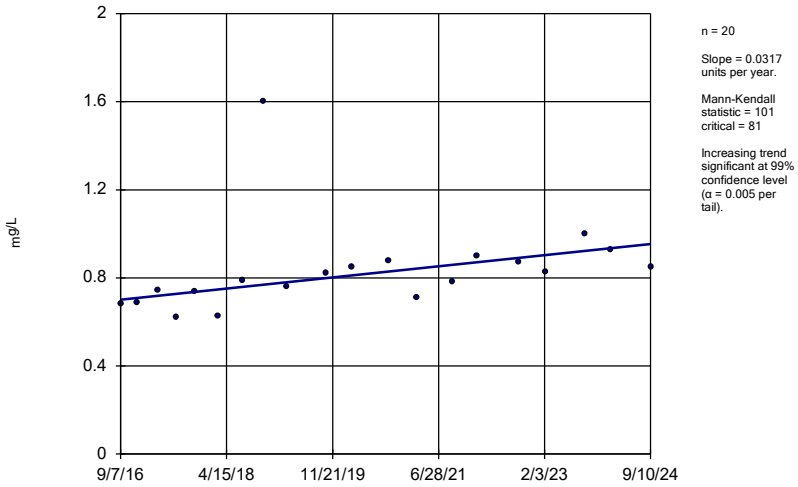
Sen's Slope Estimator

DGWC-17



n = 20

Slope = 0.0317 units per year.

Mann-Kendall statistic = 101
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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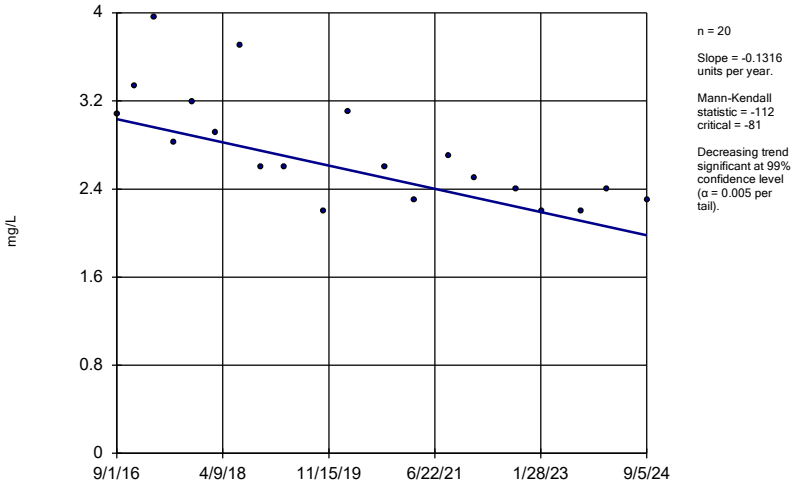
Sen's Slope Estimator

DGWC-19



n = 20

Slope = -0.1316 units per year.

Mann-Kendall statistic = -112 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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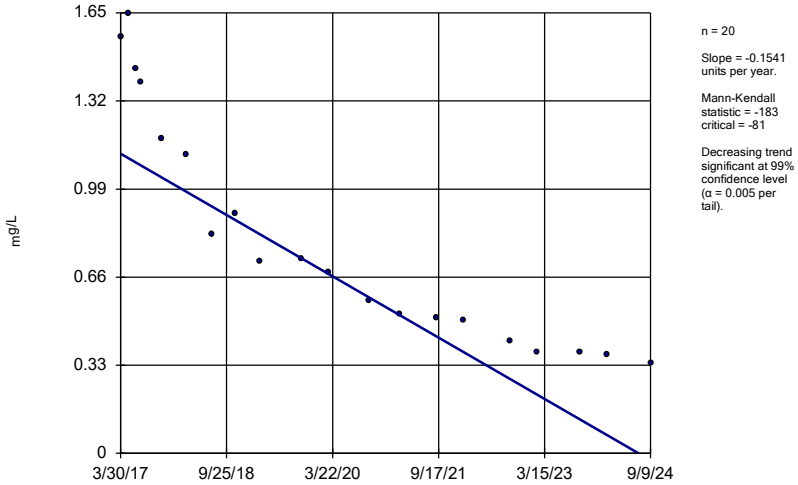
Sen's Slope Estimator

DGWC-2



n = 20

Slope = -0.1541 units per year.

Mann-Kendall statistic = -183 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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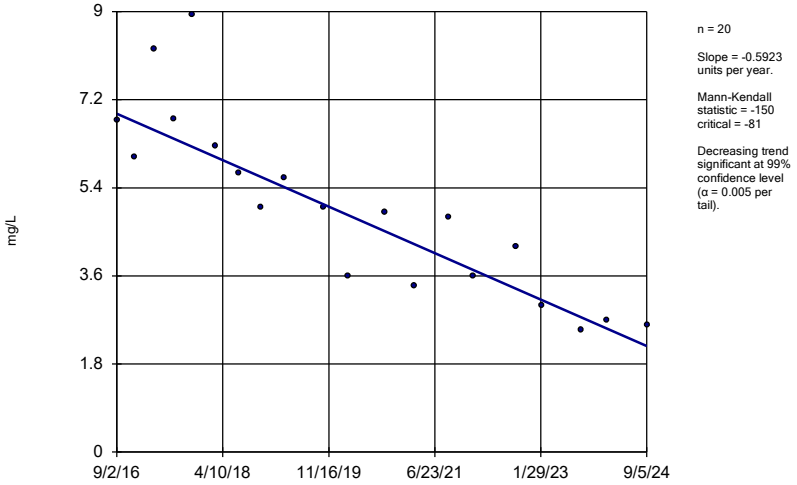
Sen's Slope Estimator

DGWC-20



n = 20

Slope = -0.5923 units per year.

Mann-Kendall statistic = -150 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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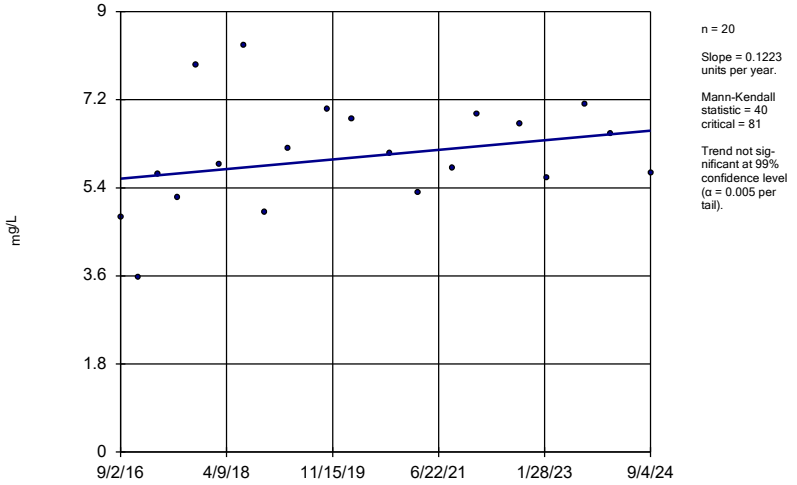
Sen's Slope Estimator

DGWC-21



n = 20

Slope = 0.1223 units per year.

Mann-Kendall statistic = 40 critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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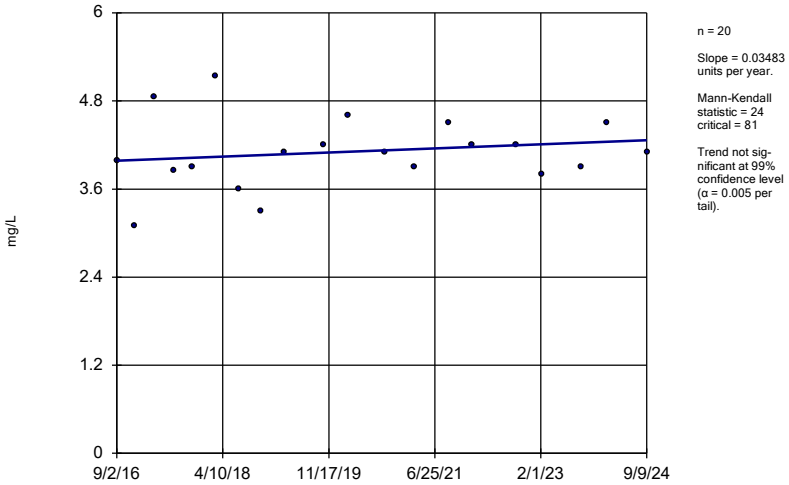
Sen's Slope Estimator

DGWC-22



n = 20

Slope = 0.03483 units per year.

Mann-Kendall statistic = 24
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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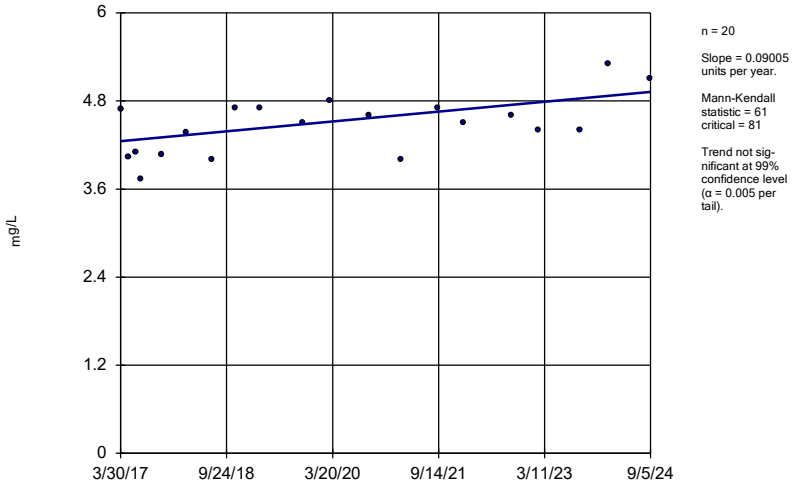
Sen's Slope Estimator

DGWC-23



n = 20

Slope = 0.09005 units per year.

Mann-Kendall statistic = 61
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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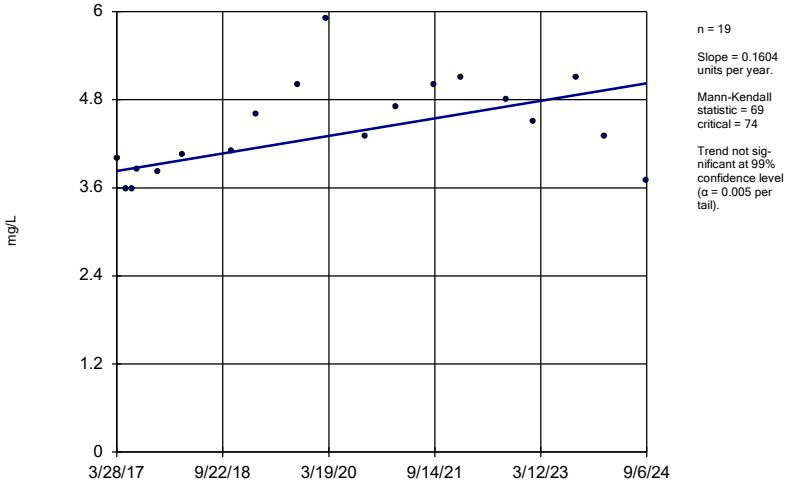
Sen's Slope Estimator

DGWC-4



n = 19

Slope = 0.1604 units per year.

Mann-Kendall statistic = 69
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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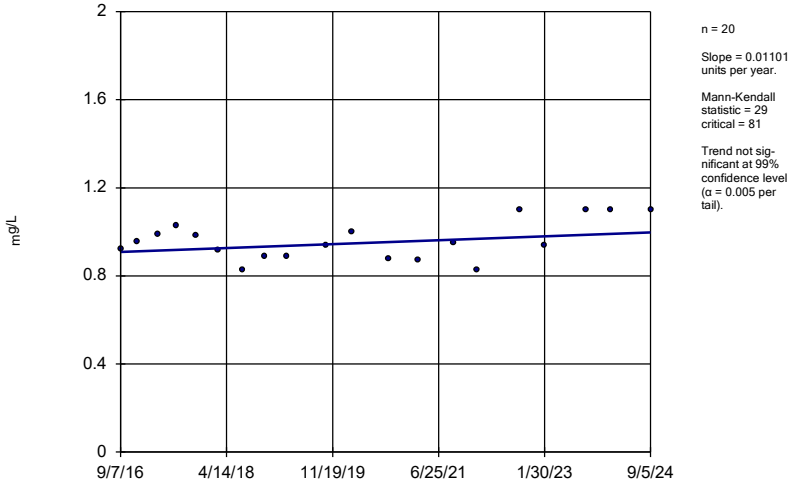
Sen's Slope Estimator

DGWC-42



n = 20

Slope = 0.01101 units per year.

Mann-Kendall statistic = 29
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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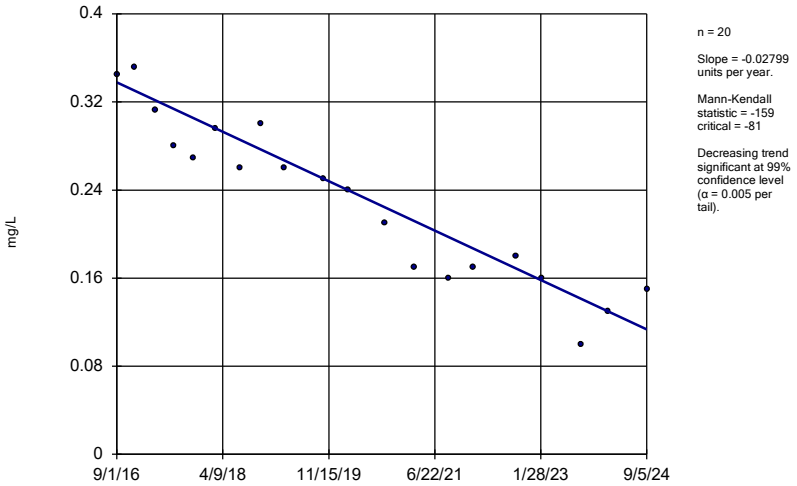
Sen's Slope Estimator

DGWC-47



n = 20

Slope = -0.02799 units per year.

Mann-Kendall statistic = -159
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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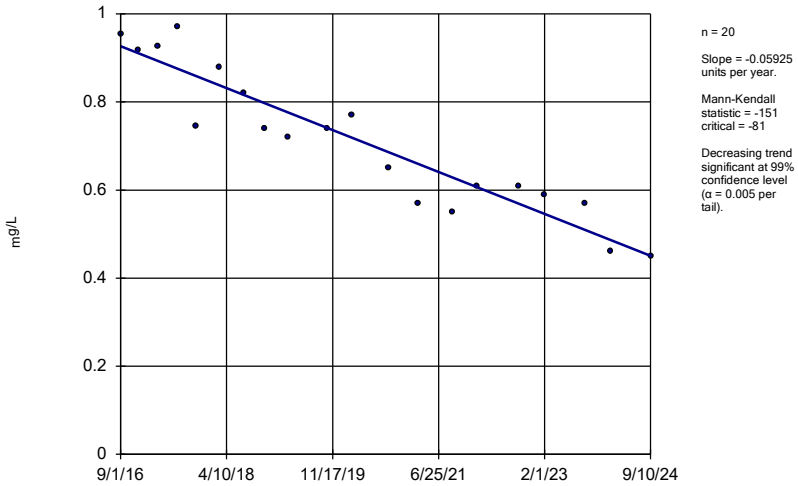
Sen's Slope Estimator

DGWC-48



n = 20

Slope = -0.05925 units per year.

Mann-Kendall statistic = -151
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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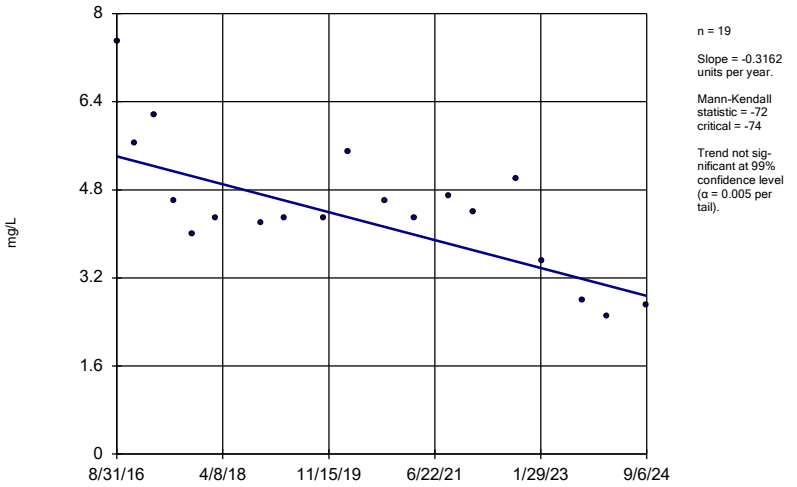
Sen's Slope Estimator

DGWC-5



n = 19

Slope = -0.3162 units per year.

Mann-Kendall statistic = -72
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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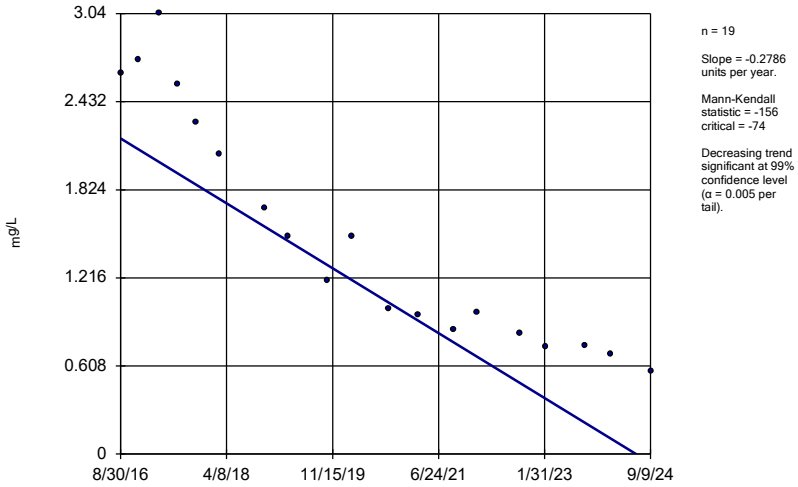
Sen's Slope Estimator

DGWC-8



n = 19

Slope = -0.2786 units per year.

Mann-Kendall statistic = -156
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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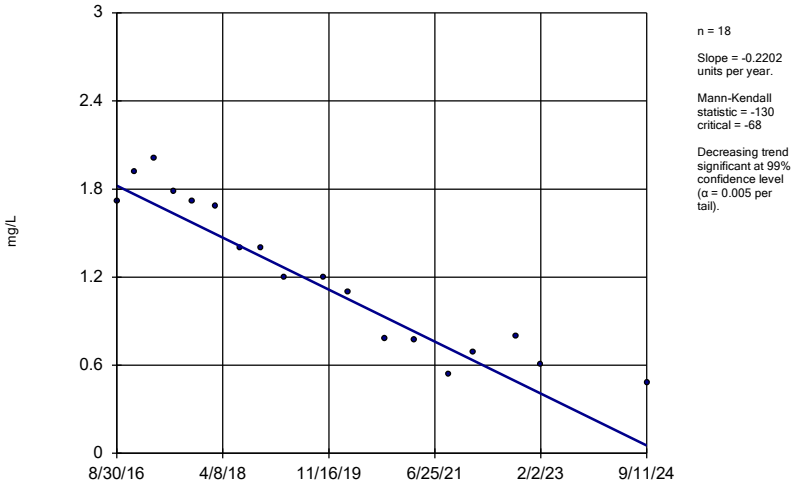
Sen's Slope Estimator

DGWC-9



n = 18

Slope = -0.2202 units per year.

Mann-Kendall statistic = -130
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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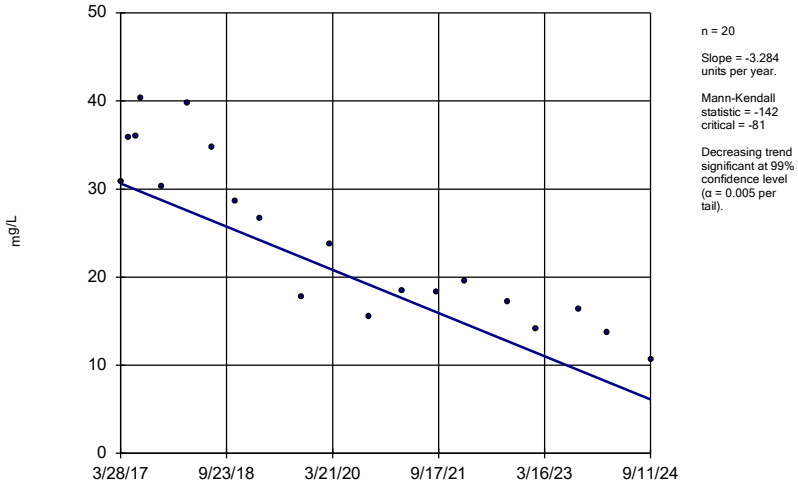
Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -3.284 units per year.

Mann-Kendall statistic = -142
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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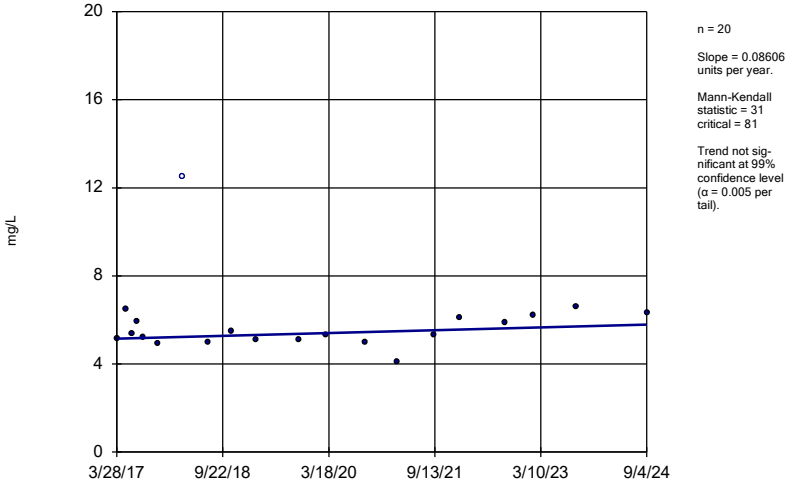
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0.08606 units per year.

Mann-Kendall statistic = 31
critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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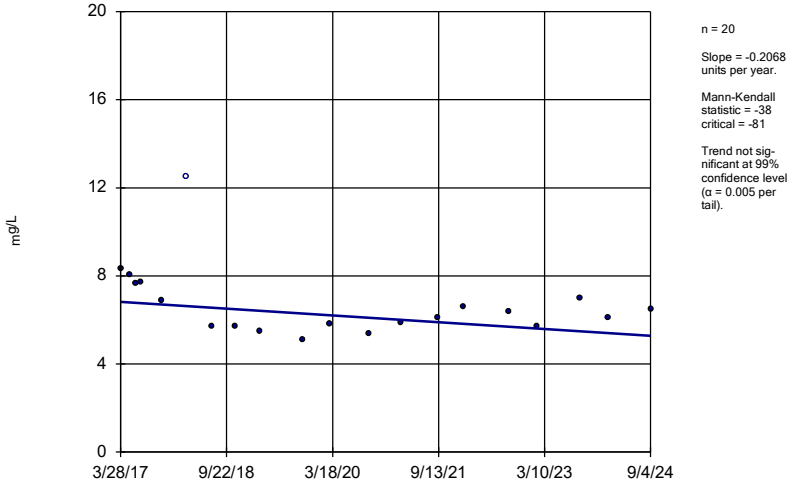
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = -0.2068 units per year.

Mann-Kendall statistic = -38
critical = -81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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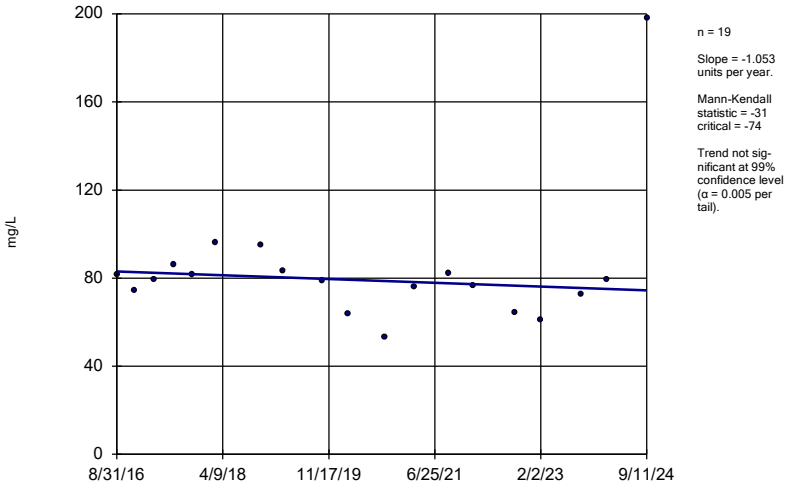
Sen's Slope Estimator

DGWC-10



n = 19

Slope = -1.053 units per year.

Mann-Kendall statistic = -31
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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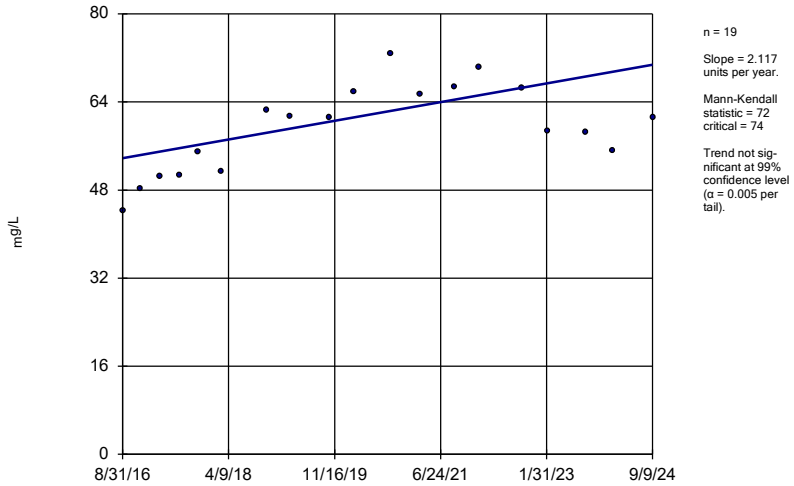
Sen's Slope Estimator

DGWC-11



n = 19

Slope = 2.117 units per year.

Mann-Kendall statistic = 72
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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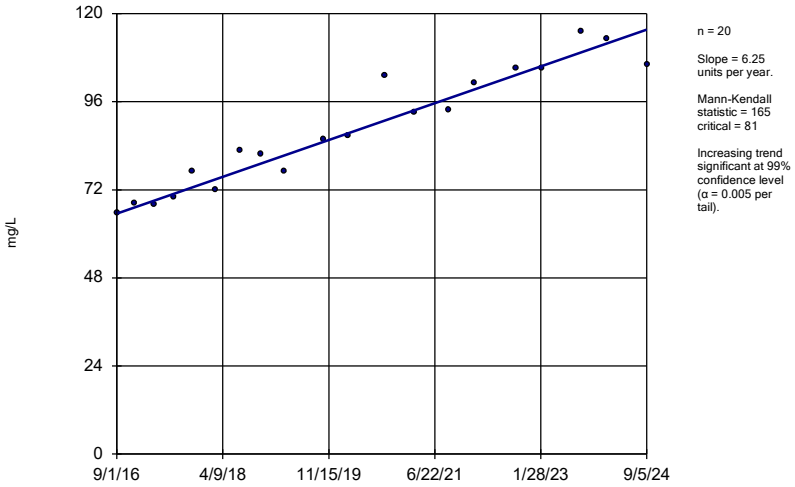
Sen's Slope Estimator

DGWC-19



n = 20

Slope = 6.25 units per year.

Mann-Kendall statistic = 165
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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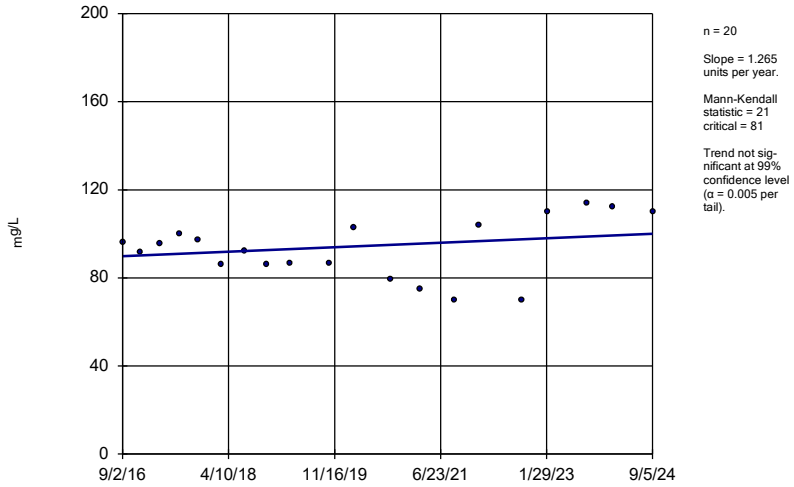
Sen's Slope Estimator

DGWC-20



n = 20

Slope = 1.265 units per year.

Mann-Kendall statistic = 21
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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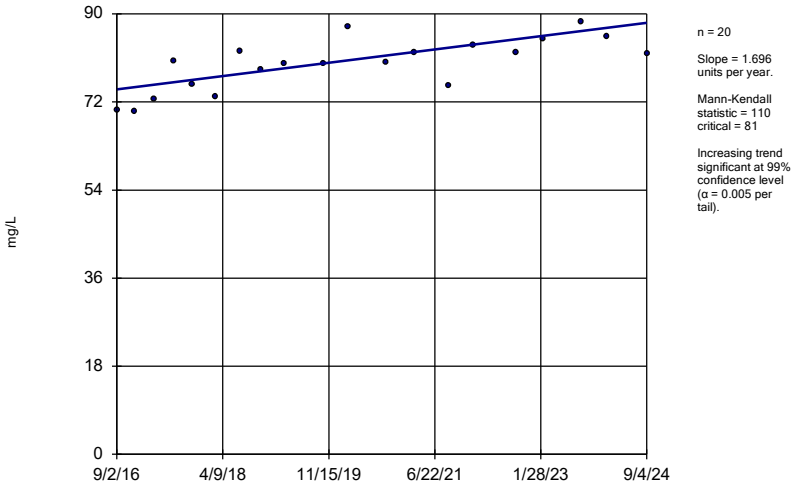
Sen's Slope Estimator

DGWC-21



n = 20

Slope = 1.696 units per year.

Mann-Kendall statistic = 110 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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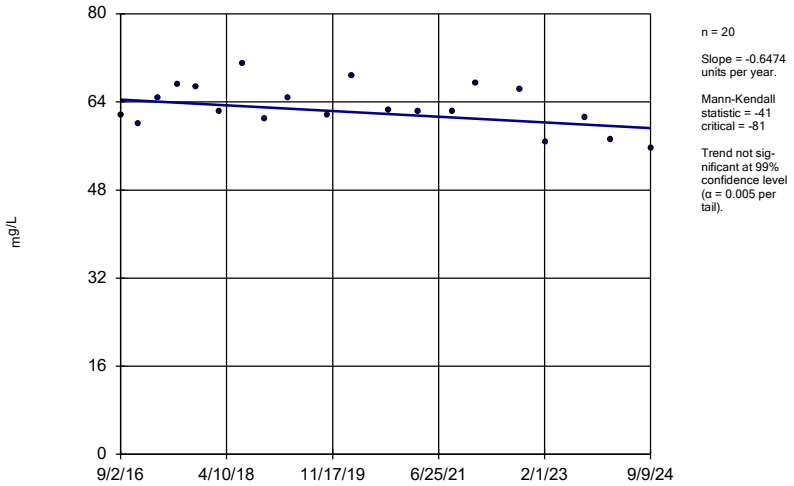
Sen's Slope Estimator

DGWC-22



n = 20

Slope = -0.6474 units per year.

Mann-Kendall statistic = -41 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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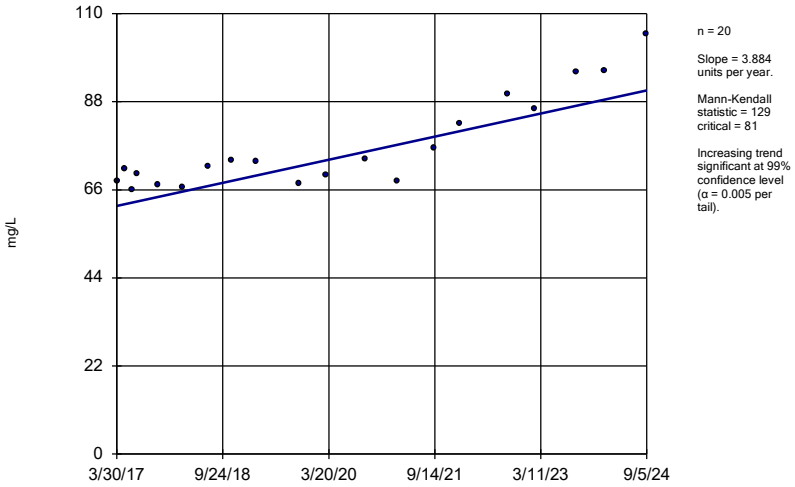
Sen's Slope Estimator

DGWC-23



n = 20

Slope = 3.884 units per year.

Mann-Kendall statistic = 129 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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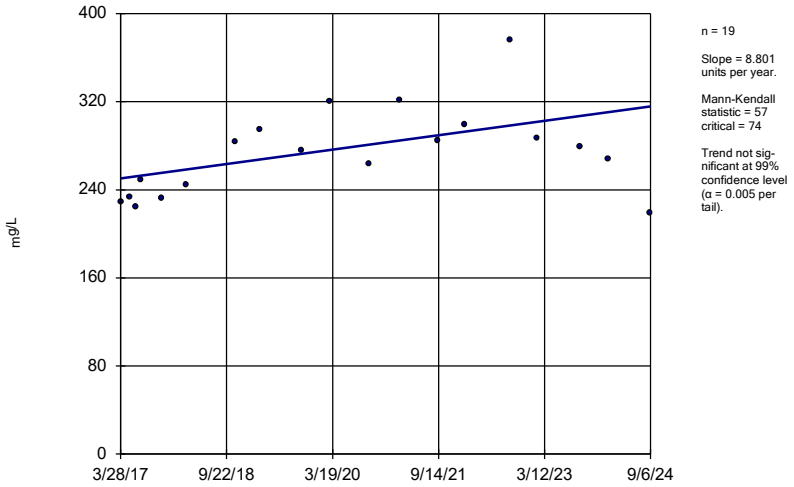
Sen's Slope Estimator

DGWC-4



n = 19

Slope = 8.801 units per year.

Mann-Kendall statistic = 57 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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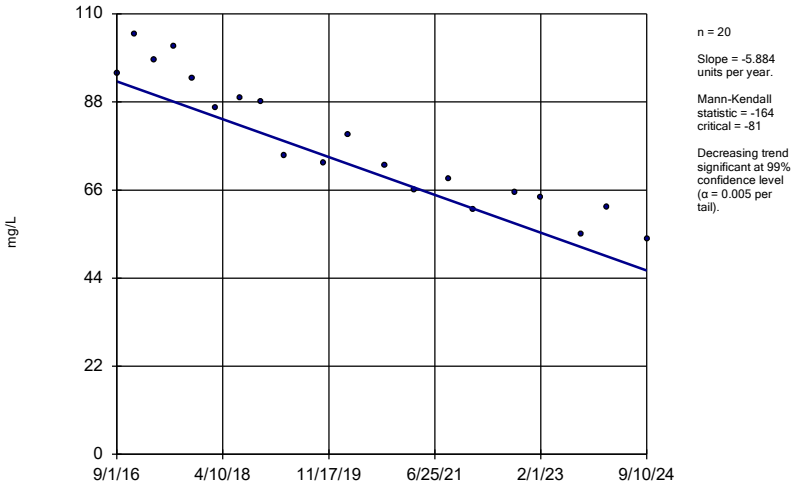
Sen's Slope Estimator

DGWC-48



n = 20

Slope = -5.884 units per year.

Mann-Kendall statistic = -164 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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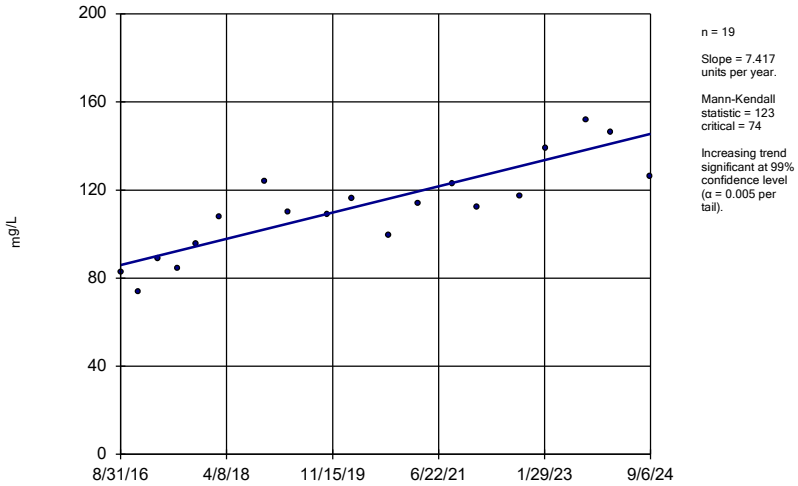
Sen's Slope Estimator

DGWC-5



n = 19

Slope = 7.417 units per year.

Mann-Kendall statistic = 123 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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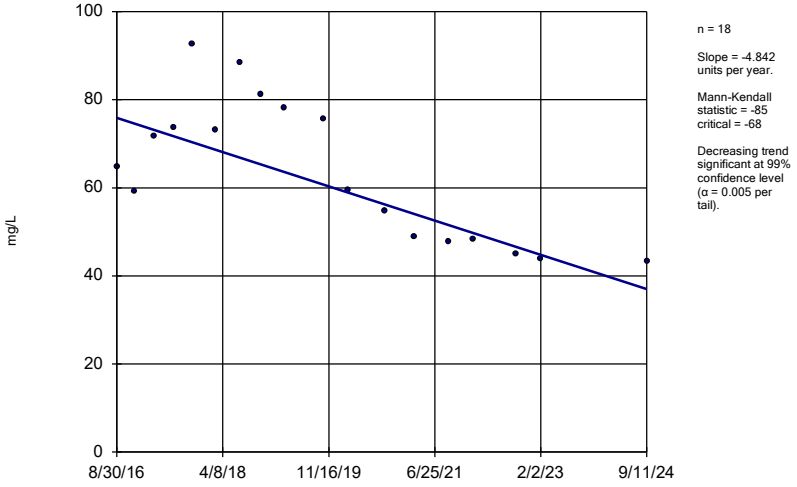
Sen's Slope Estimator

DGWC-9



n = 18

Slope = -4.842 units per year.

Mann-Kendall statistic = -85 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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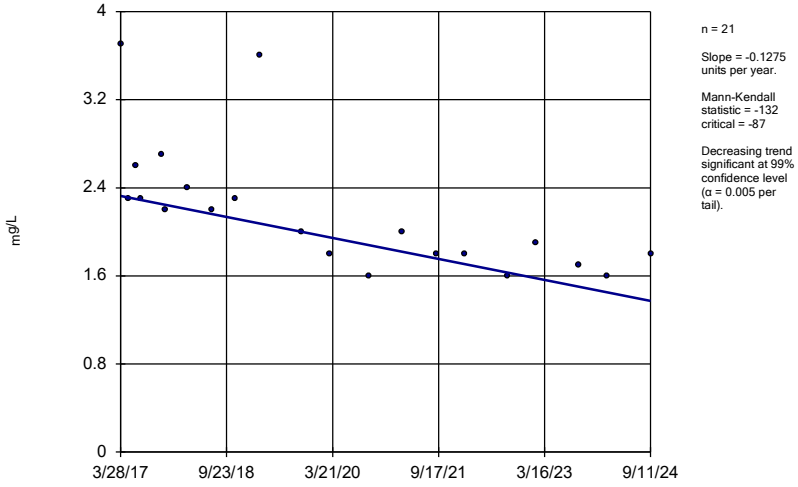
Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = -0.1275 units per year.

Mann-Kendall statistic = -132 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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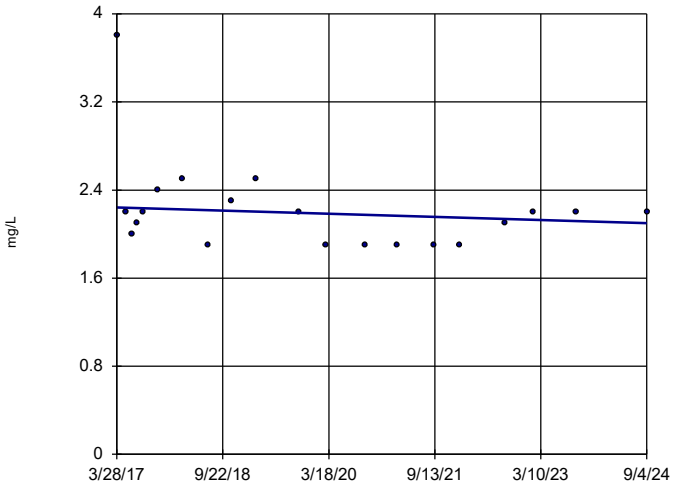
Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = -0.01924 units per year.

Mann-Kendall statistic = -36
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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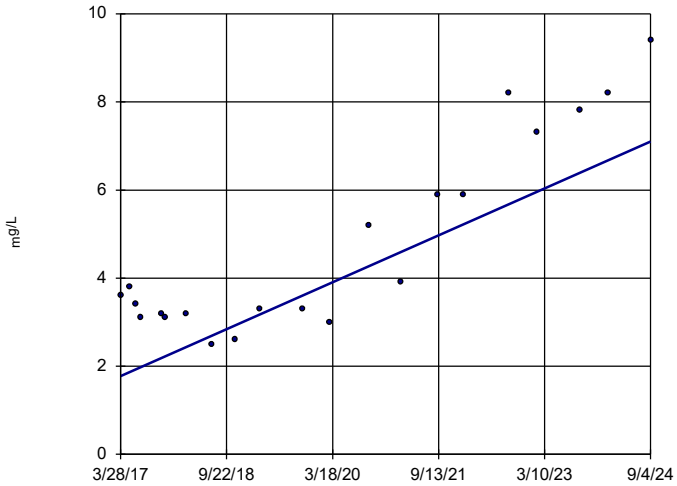
Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = 0.7154 units per year.

Mann-Kendall statistic = 111
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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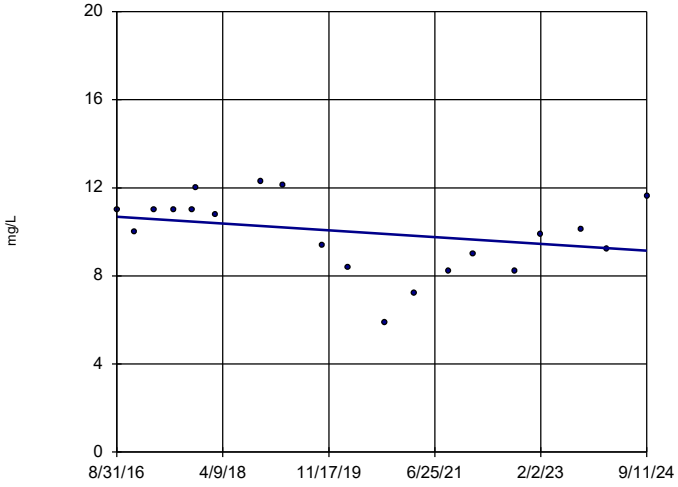
Sen's Slope Estimator

DGWC-10



n = 20

Slope = -0.1912 units per year.

Mann-Kendall statistic = -43
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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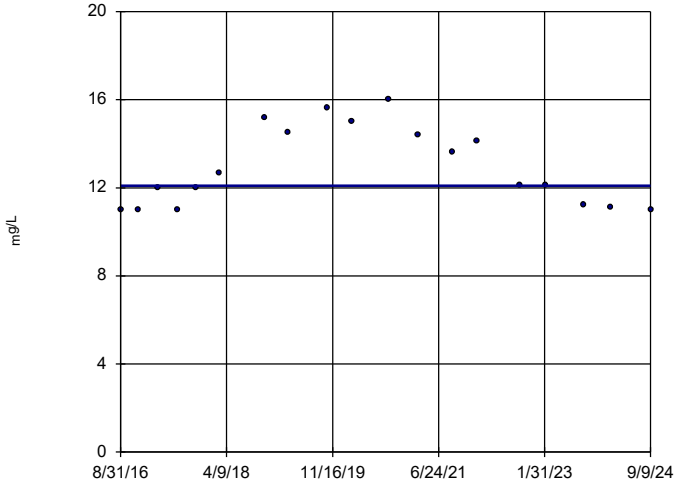
Sen's Slope Estimator

DGWC-11



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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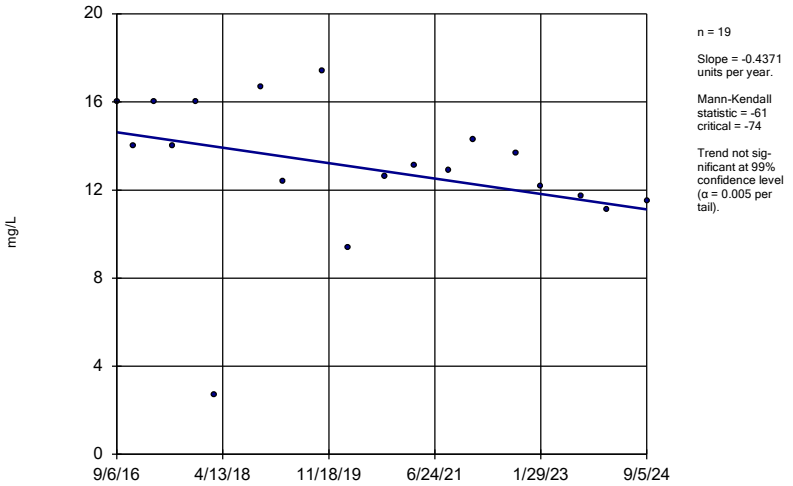
Sen's Slope Estimator

DGWC-13



n = 19

Slope = -0.4371 units per year.

Mann-Kendall statistic = -61 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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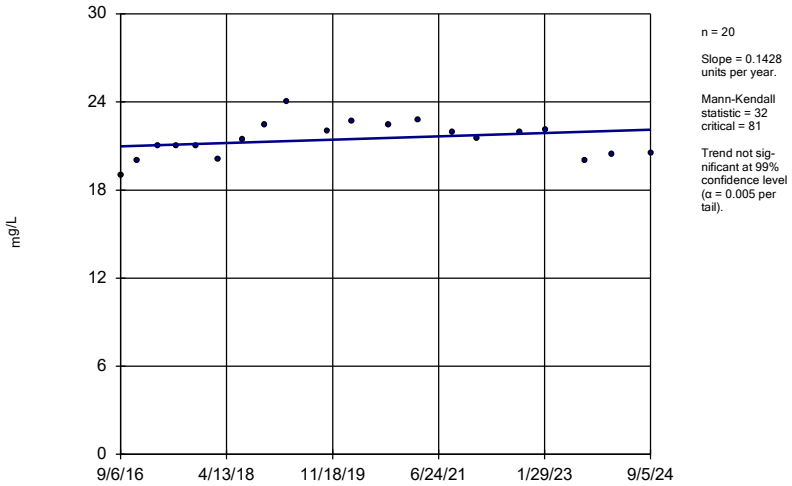
Sen's Slope Estimator

DGWC-15



n = 20

Slope = 0.1428 units per year.

Mann-Kendall statistic = 32 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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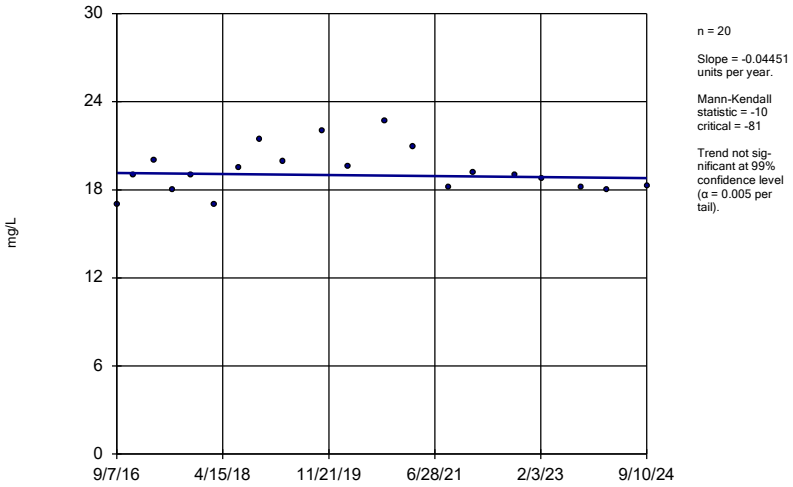
Sen's Slope Estimator

DGWC-17



n = 20

Slope = -0.04451 units per year.

Mann-Kendall statistic = -10 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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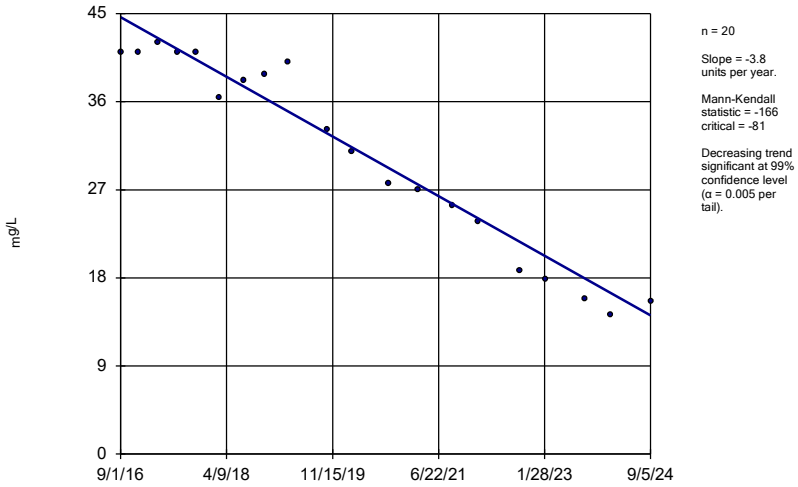
Sen's Slope Estimator

DGWC-19



n = 20

Slope = -3.8 units per year.

Mann-Kendall statistic = -166 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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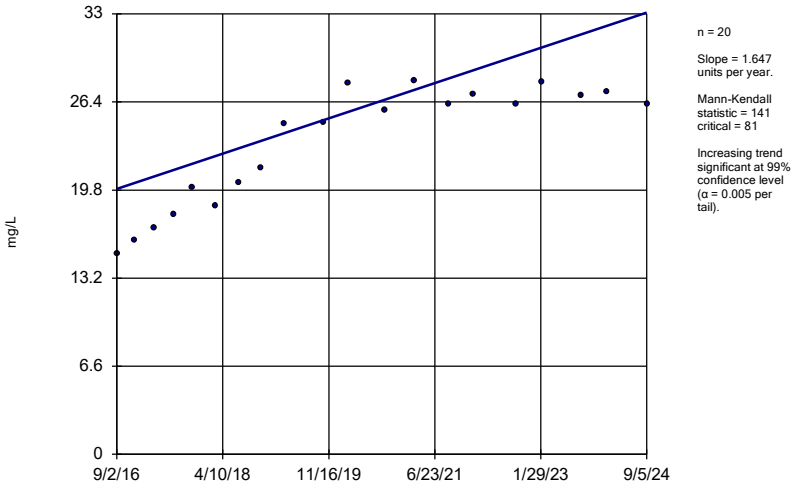
Sen's Slope Estimator

DGWC-20



n = 20

Slope = 1.647 units per year.

Mann-Kendall statistic = 141
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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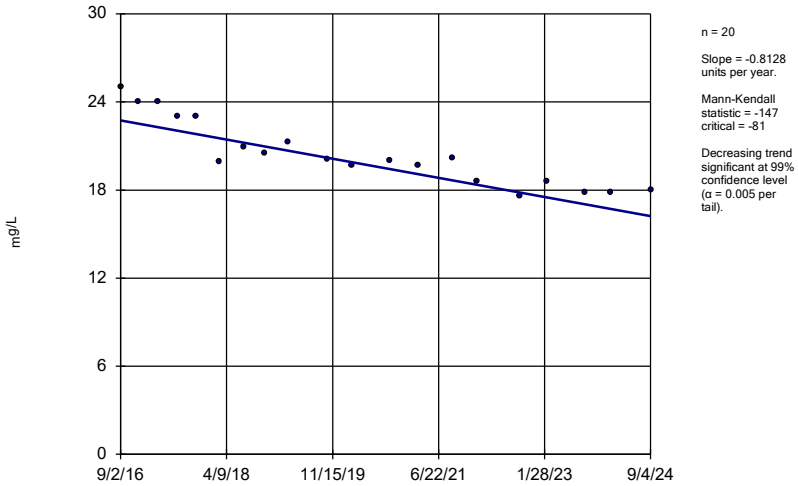
Sen's Slope Estimator

DGWC-21



n = 20

Slope = -0.8128 units per year.

Mann-Kendall statistic = -147
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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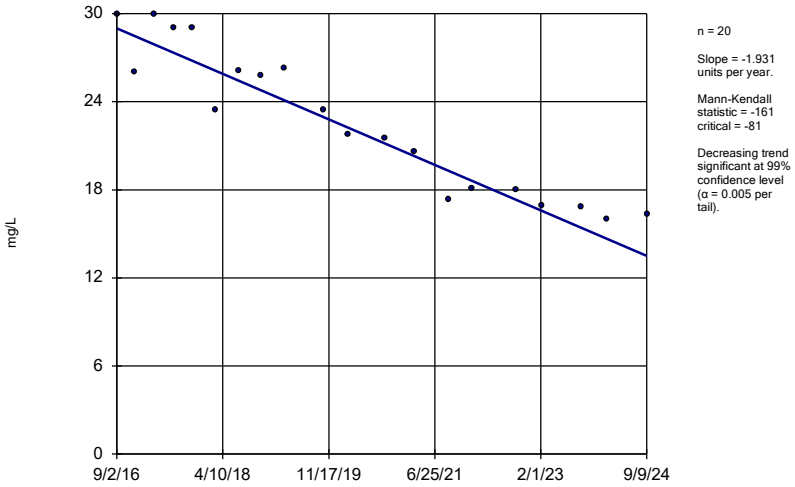
Sen's Slope Estimator

DGWC-22



n = 20

Slope = -1.931 units per year.

Mann-Kendall statistic = -161
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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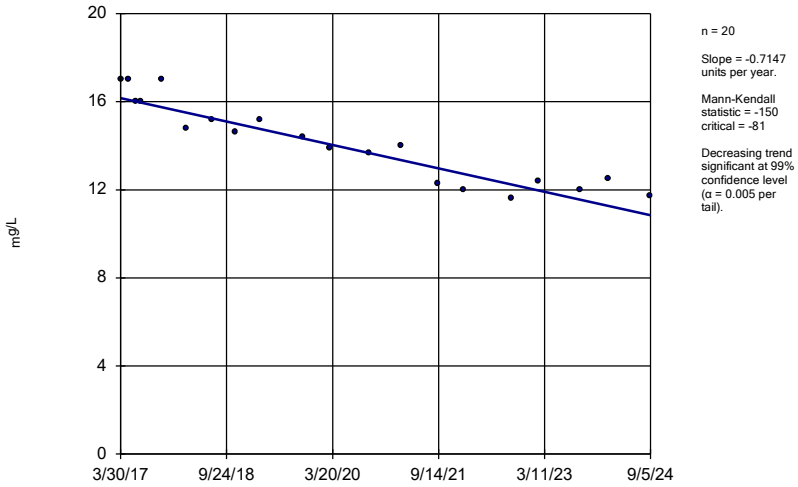
Sen's Slope Estimator

DGWC-23



n = 20

Slope = -0.7147 units per year.

Mann-Kendall statistic = -150
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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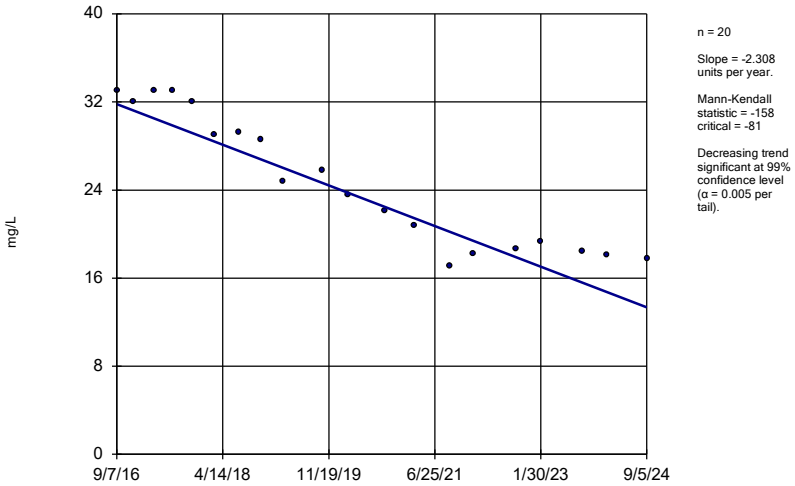
Sen's Slope Estimator

DGWC-42



n = 20

Slope = -2.308 units per year.

Mann-Kendall statistic = -158
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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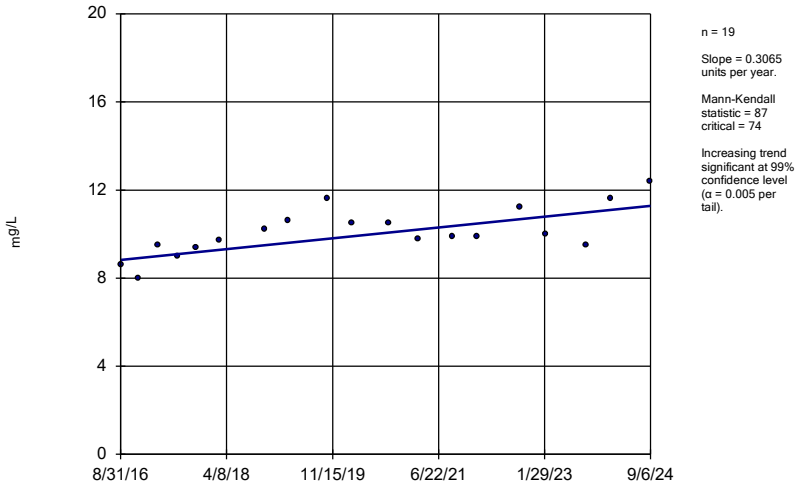
Sen's Slope Estimator

DGWC-5



n = 19

Slope = 0.3065 units per year.

Mann-Kendall statistic = 87
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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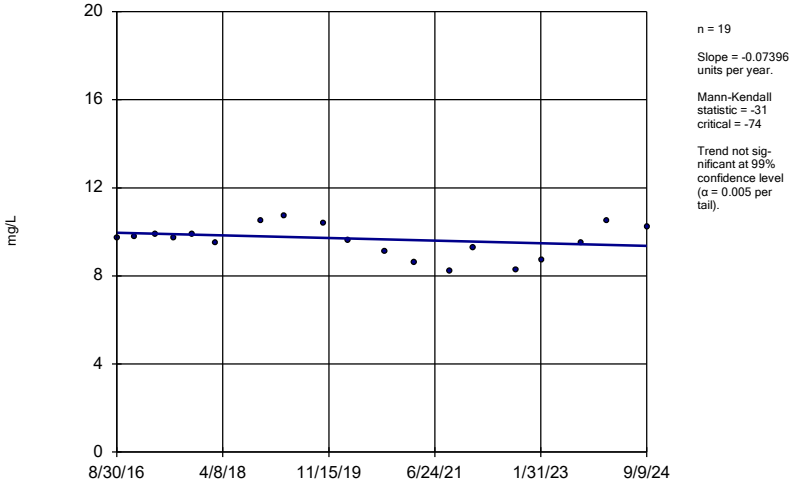
Sen's Slope Estimator

DGWC-8



n = 19

Slope = -0.07396 units per year.

Mann-Kendall statistic = -31
critical = -74

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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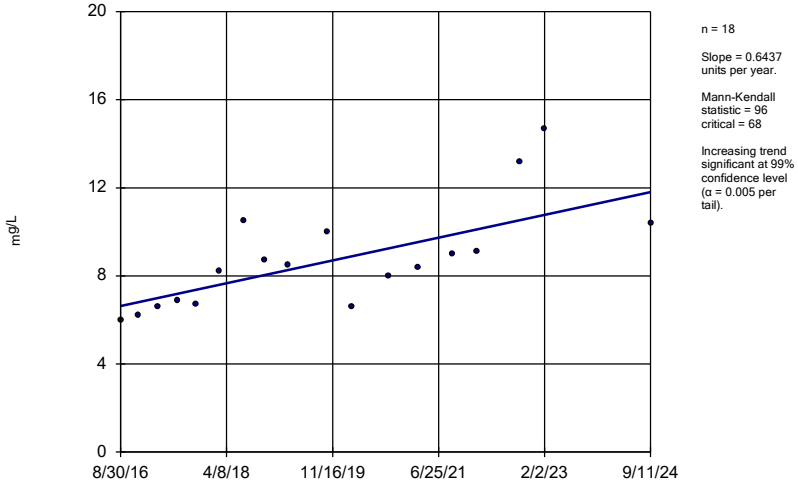
Sen's Slope Estimator

DGWC-9



n = 18

Slope = 0.6437 units per year.

Mann-Kendall statistic = 96
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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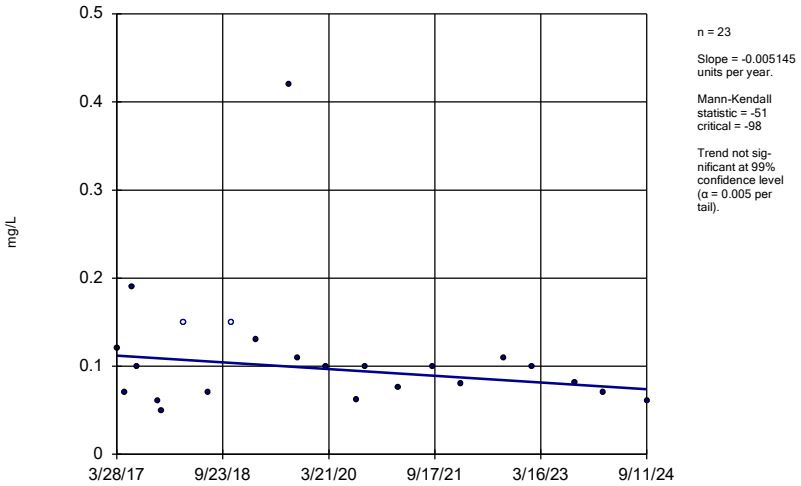
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 23

Slope = -0.005145 units per year.

Mann-Kendall statistic = -51
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:03 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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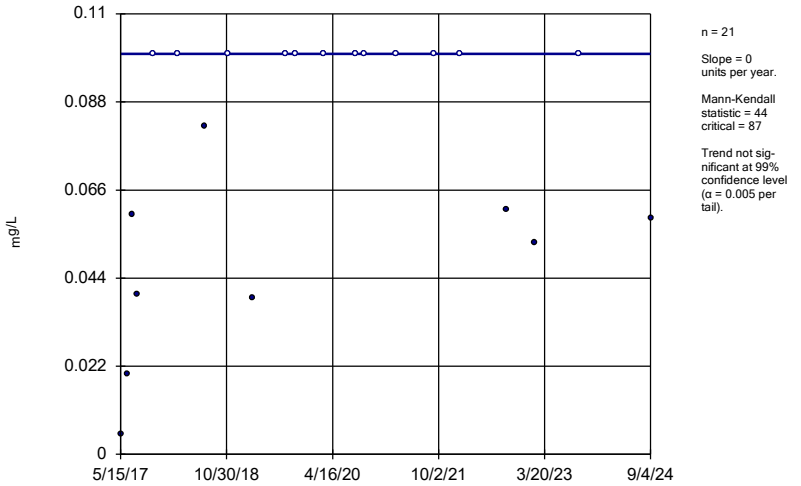
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 44
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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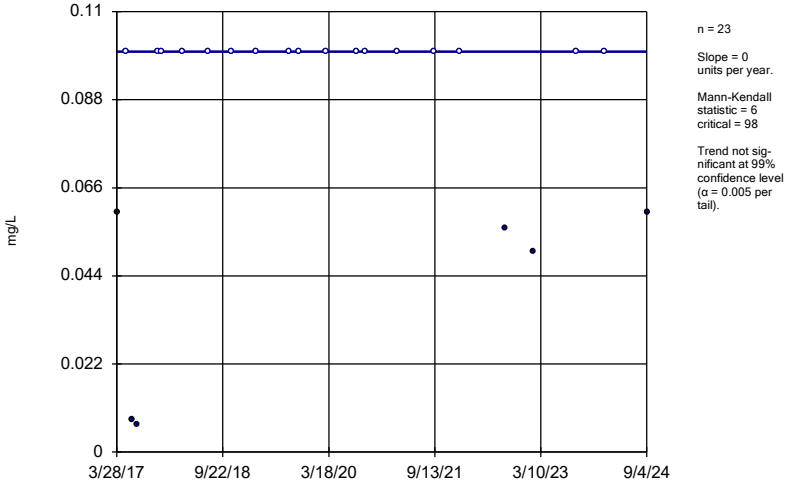
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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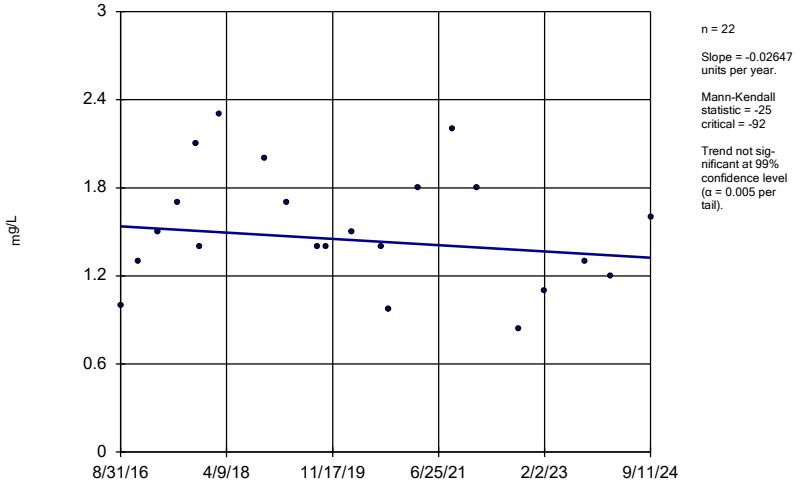
Sen's Slope Estimator

DGWC-10



n = 22

Slope = -0.02647 units per year.

Mann-Kendall statistic = -25
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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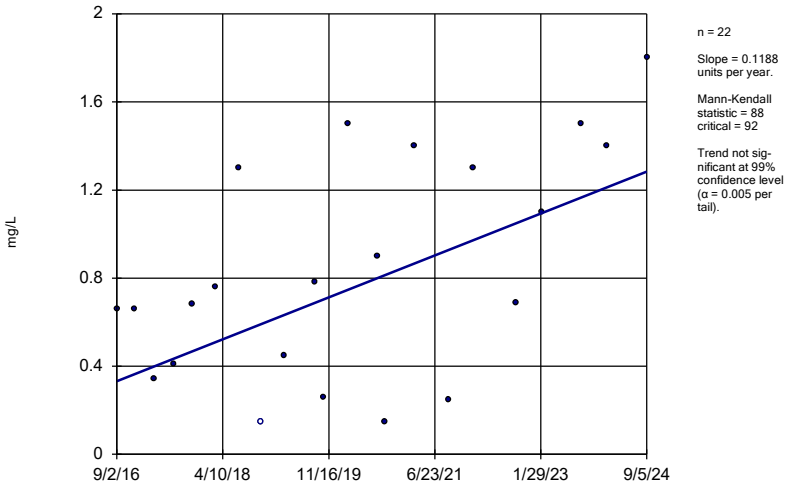
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-20



n = 22

Slope = 0.1188 units per year.

Mann-Kendall statistic = 88
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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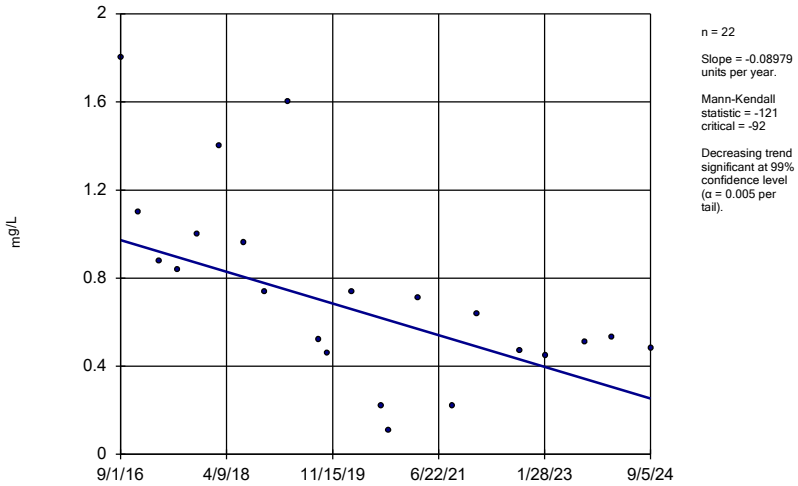
Sen's Slope Estimator

DGWC-47



n = 22

Slope = -0.08979 units per year.

Mann-Kendall statistic = -121
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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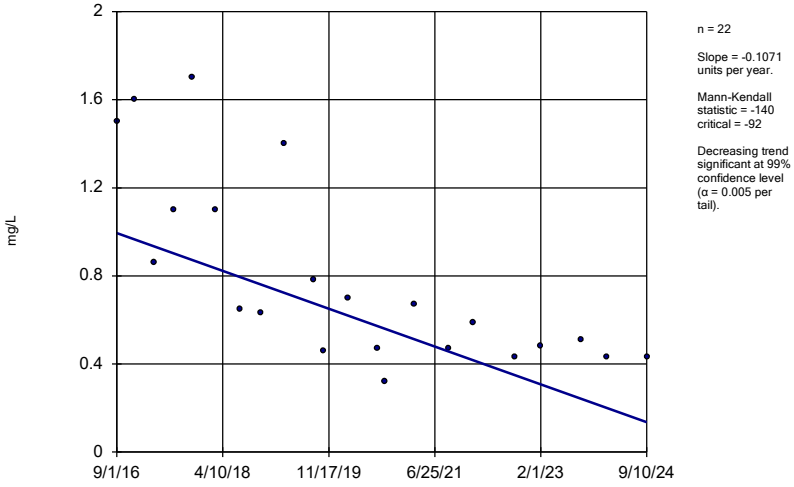
Sen's Slope Estimator

DGWC-48



n = 22

Slope = -0.1071 units per year.

Mann-Kendall statistic = -140
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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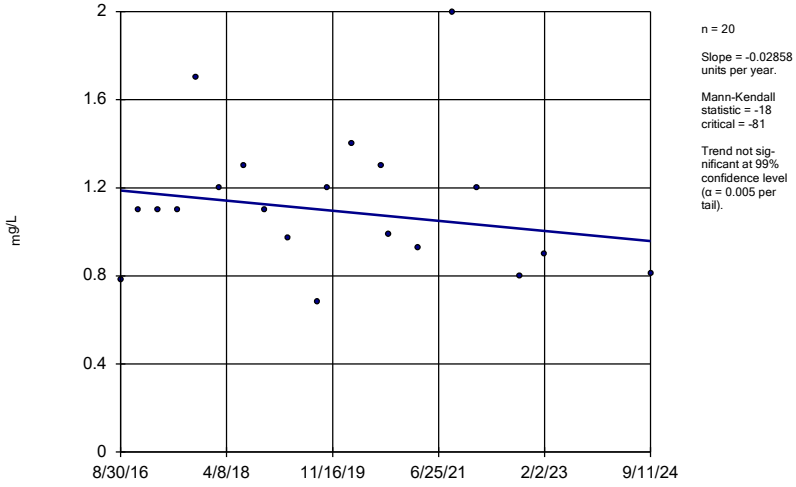
Sen's Slope Estimator

DGWC-9



n = 20

Slope = -0.02858 units per year.

Mann-Kendall statistic = -18
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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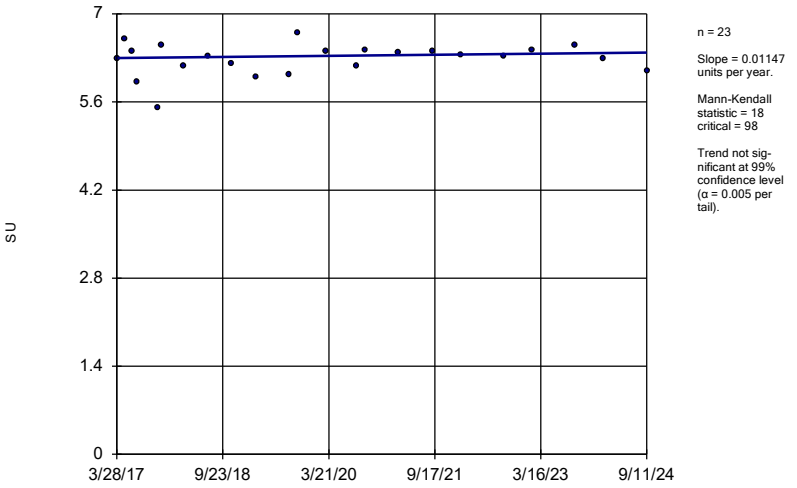
Sen's Slope Estimator

DGWA-53 (bg)



n = 23

Slope = 0.01147 units per year.

Mann-Kendall statistic = 18
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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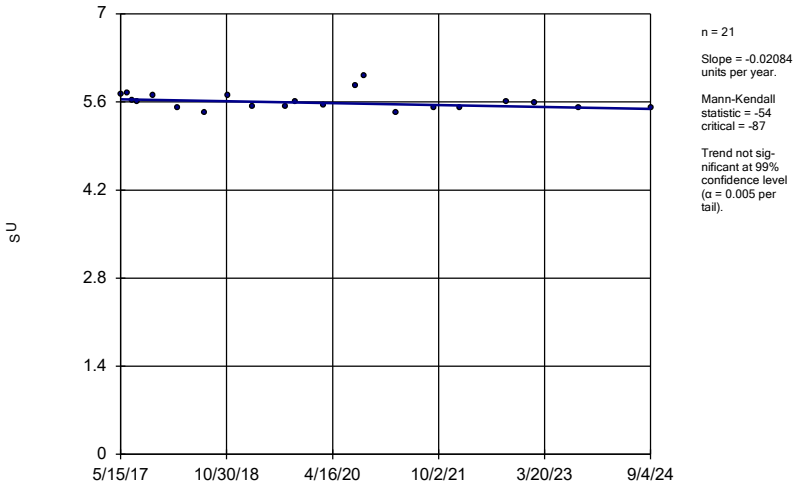
Sen's Slope Estimator

DGWA-70A (bg)



n = 21

Slope = -0.02084 units per year.

Mann-Kendall statistic = -54
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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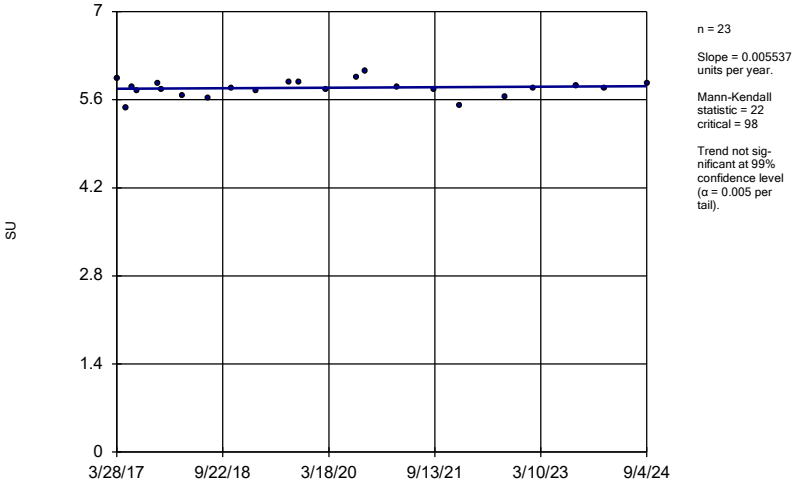
Sen's Slope Estimator

DGWA-71 (bg)



n = 23

Slope = 0.005537 units per year.

Mann-Kendall statistic = 22
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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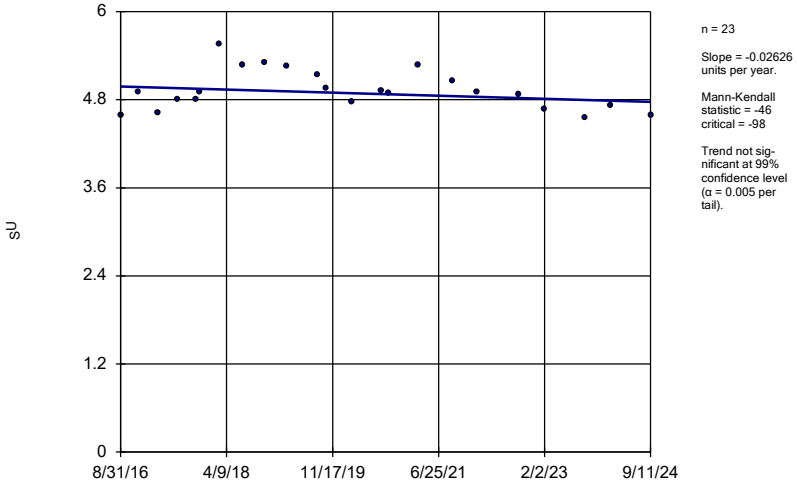
Sen's Slope Estimator

DGWC-10



n = 23

Slope = -0.02626 units per year.

Mann-Kendall statistic = -46
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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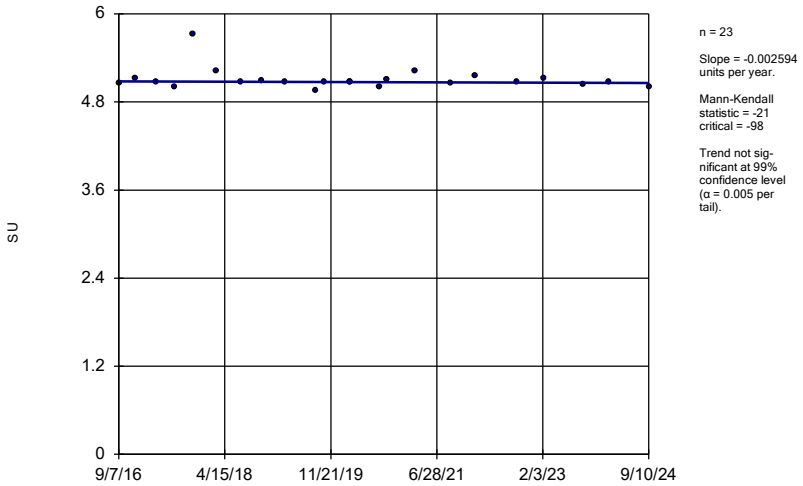
Sen's Slope Estimator

DGWC-17



n = 23

Slope = -0.002594 units per year.

Mann-Kendall statistic = -21
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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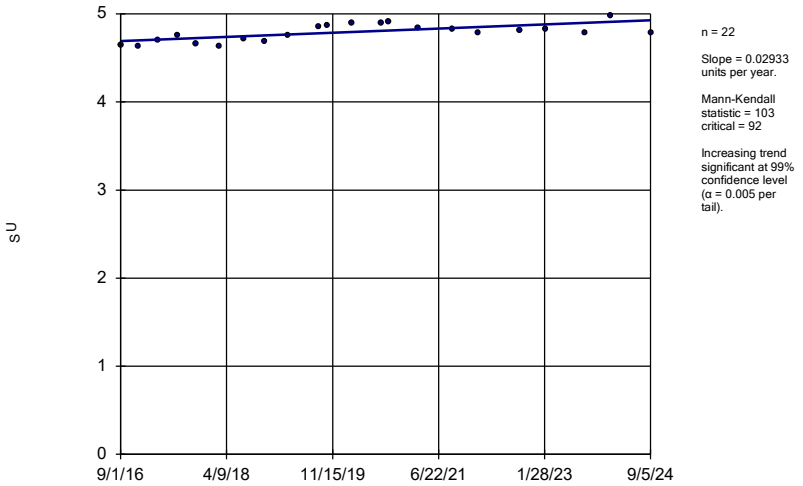
Sen's Slope Estimator

DGWC-19



n = 22

Slope = 0.02933 units per year.

Mann-Kendall statistic = 103
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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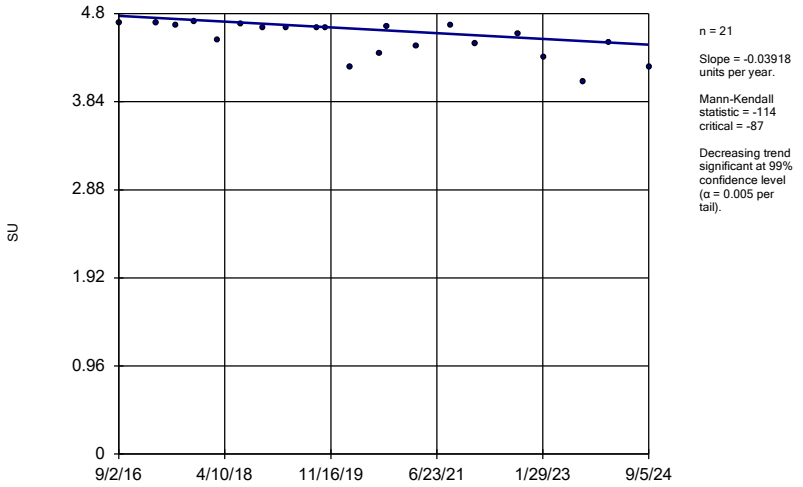
Sen's Slope Estimator

DGWC-20



n = 21

Slope = -0.03918 units per year.

Mann-Kendall statistic = -114
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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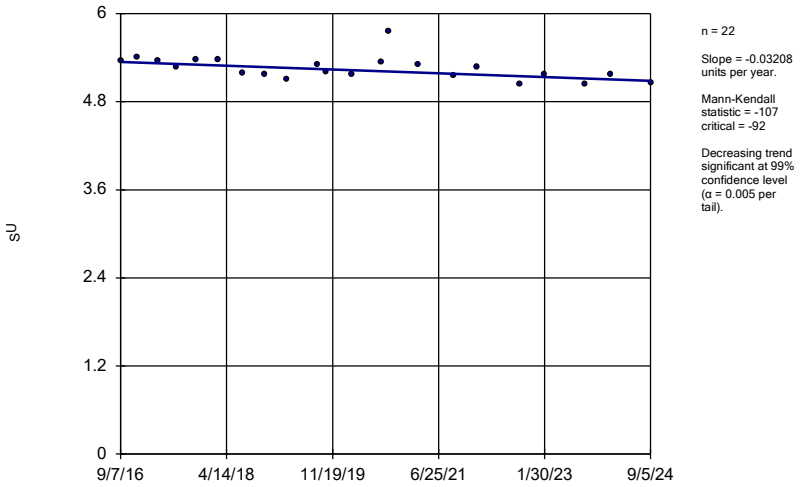
Sen's Slope Estimator

DGWC-42



n = 22

Slope = -0.03208 units per year.

Mann-Kendall statistic = -107
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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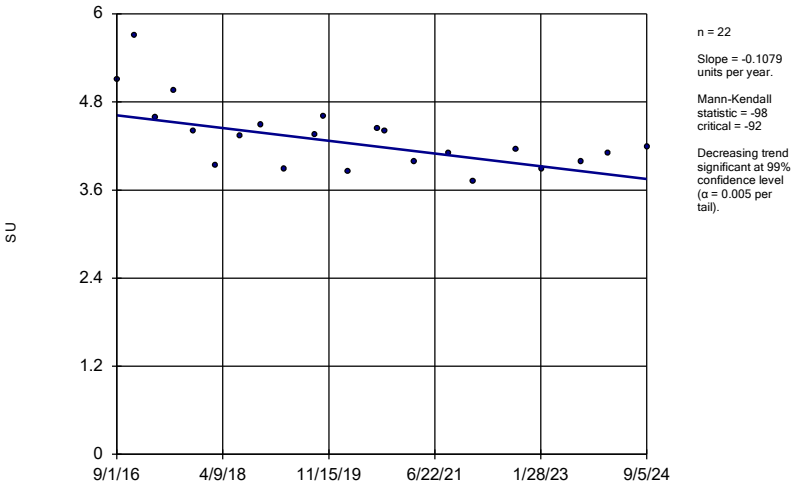
Sen's Slope Estimator

DGWC-47



n = 22

Slope = -0.1079 units per year.

Mann-Kendall statistic = -98 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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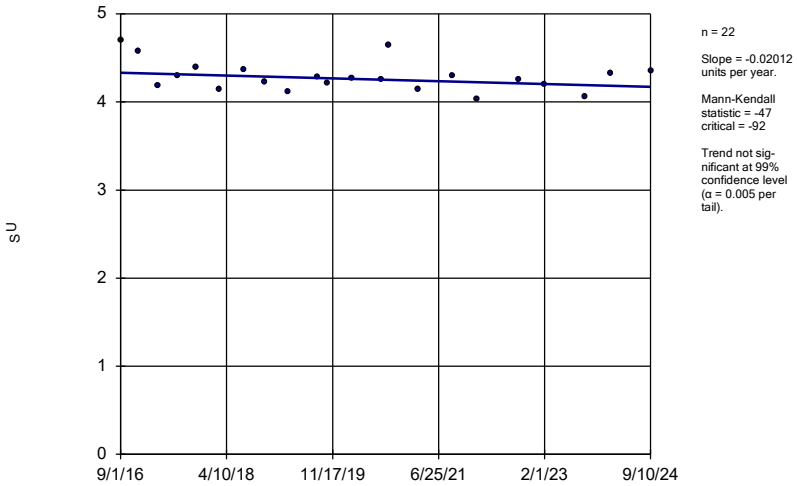
Sen's Slope Estimator

DGWC-48



n = 22

Slope = -0.02012 units per year.

Mann-Kendall statistic = -47 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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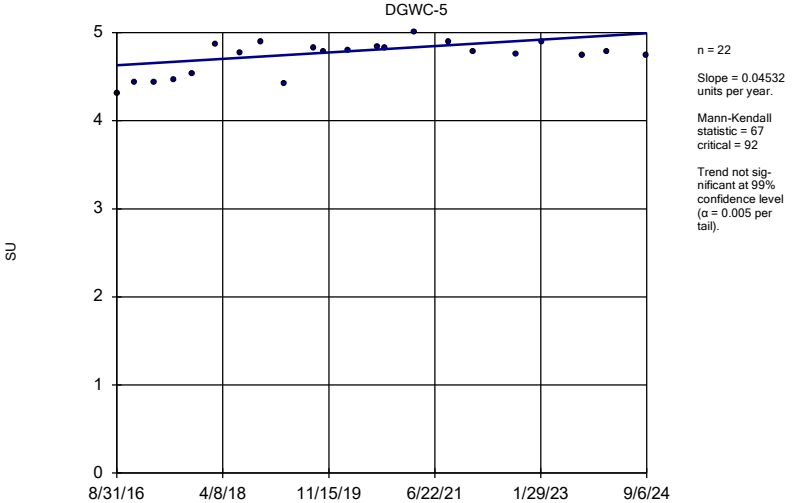
Sen's Slope Estimator

DGWC-5



n = 22

Slope = 0.04532 units per year.

Mann-Kendall statistic = 67 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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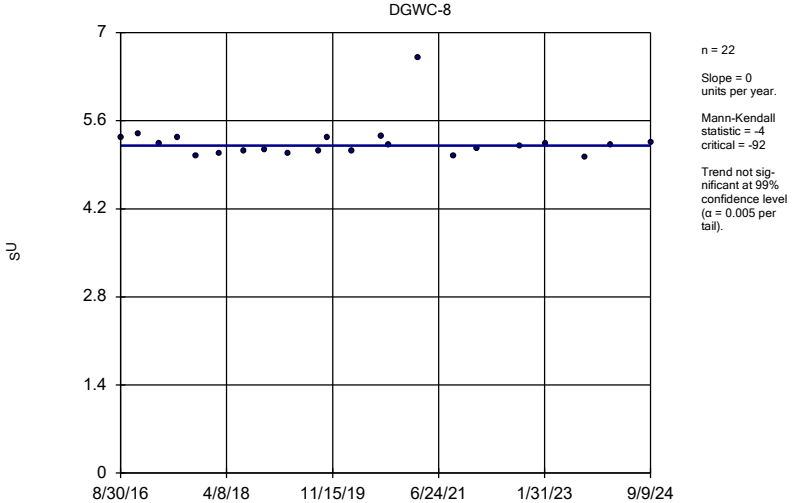
Sen's Slope Estimator

DGWC-8



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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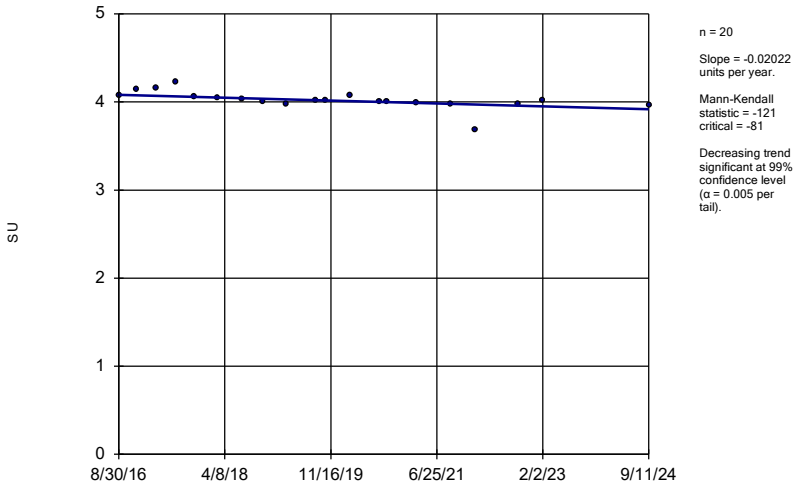
Sen's Slope Estimator

DGWC-9



n = 20

Slope = -0.02022 units per year.

Mann-Kendall statistic = -121
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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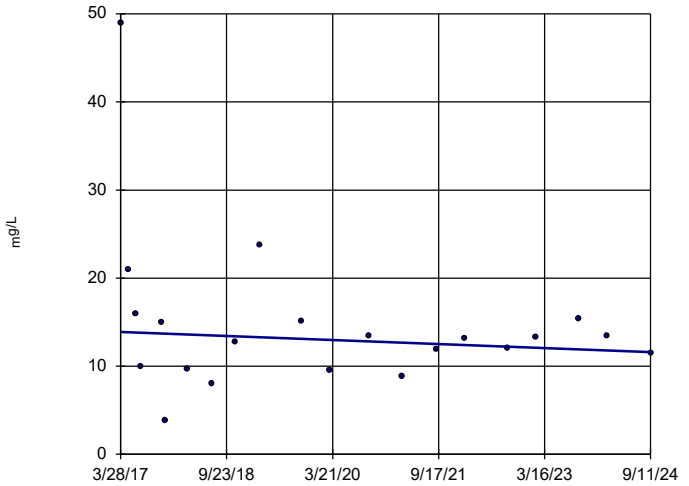
Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = -0.3077 units per year.

Mann-Kendall statistic = -24
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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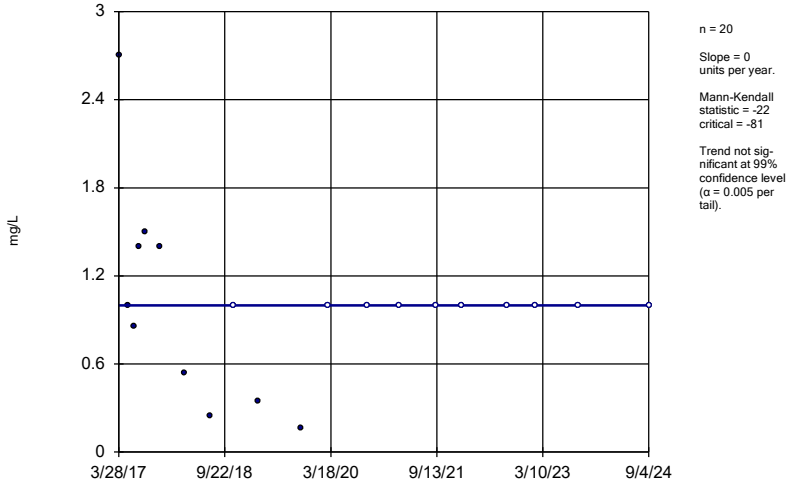
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -22
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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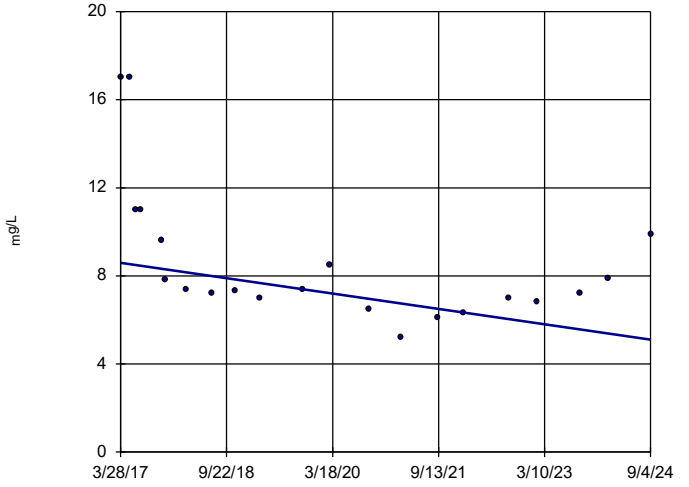
Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = -0.4673 units per year.

Mann-Kendall statistic = -91
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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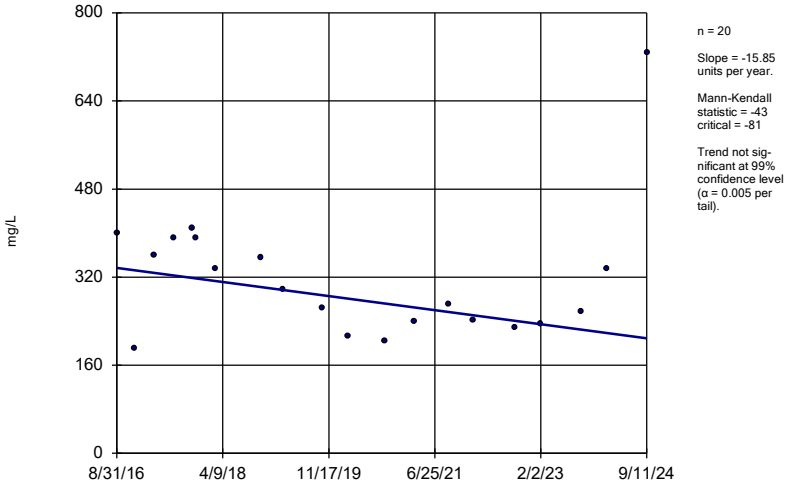
Sen's Slope Estimator

DGWC-10



n = 20

Slope = -15.85 units per year.

Mann-Kendall statistic = -43
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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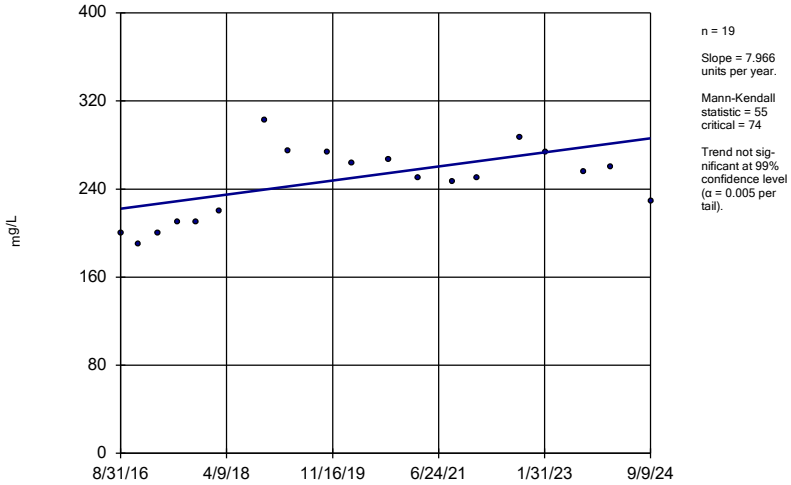
Sen's Slope Estimator

DGWC-11



n = 19

Slope = 7.966 units per year.

Mann-Kendall statistic = 55
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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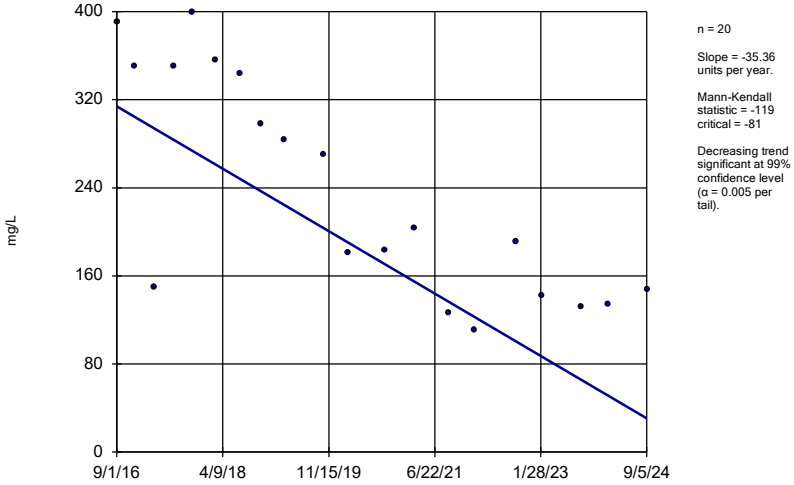
Sen's Slope Estimator

DGWC-12



n = 20

Slope = -35.36 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 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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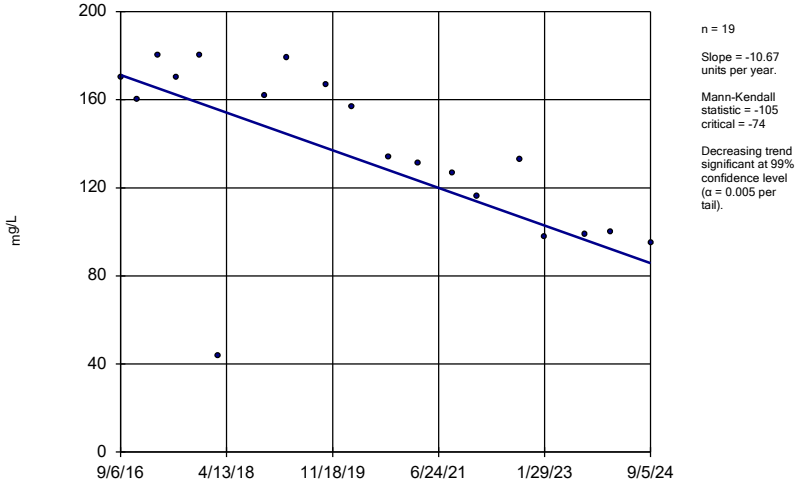
Sen's Slope Estimator

DGWC-13



n = 19

Slope = -10.67 units per year.

Mann-Kendall statistic = -105
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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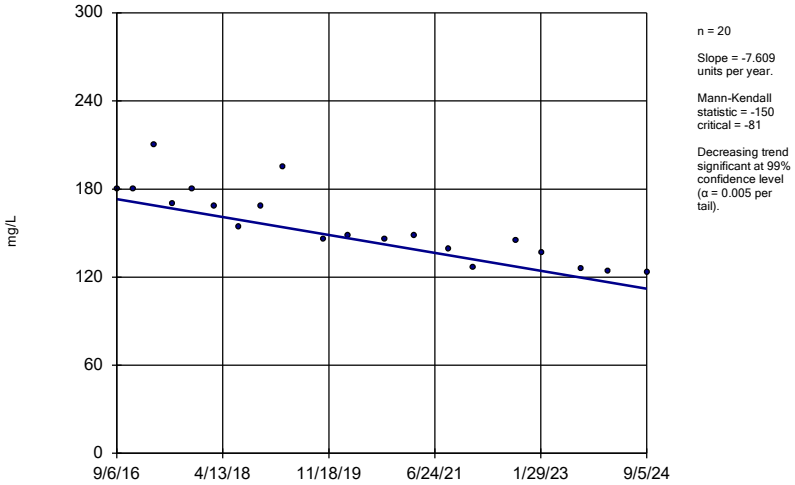
Sen's Slope Estimator

DGWC-15



n = 20

Slope = -7.609 units per year.

Mann-Kendall statistic = -150
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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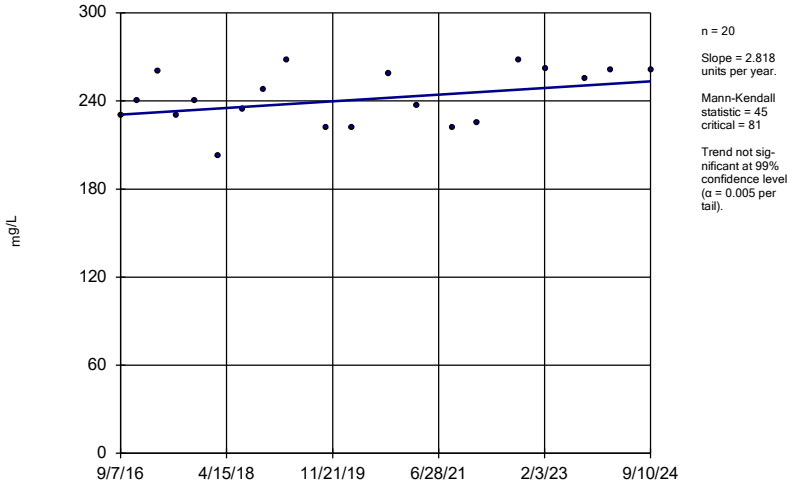
Sen's Slope Estimator

DGWC-17



n = 20

Slope = 2.818 units per year.

Mann-Kendall statistic = 45
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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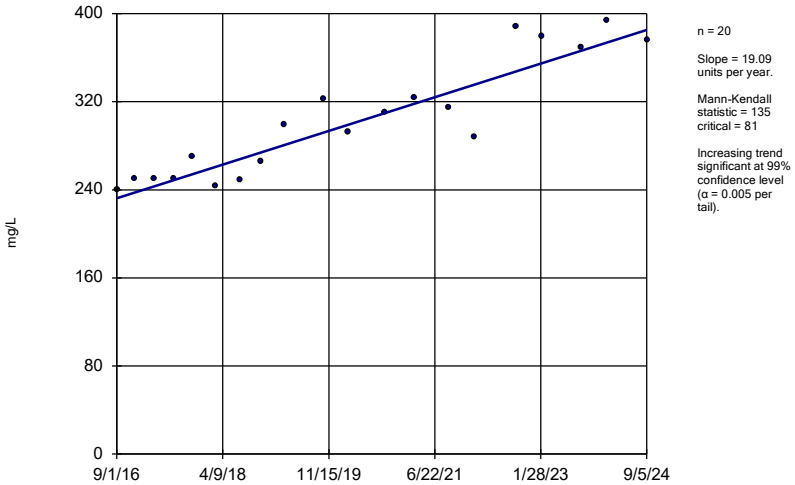
Sen's Slope Estimator

DGWC-19



n = 20

Slope = 19.09 units per year.

Mann-Kendall statistic = 135
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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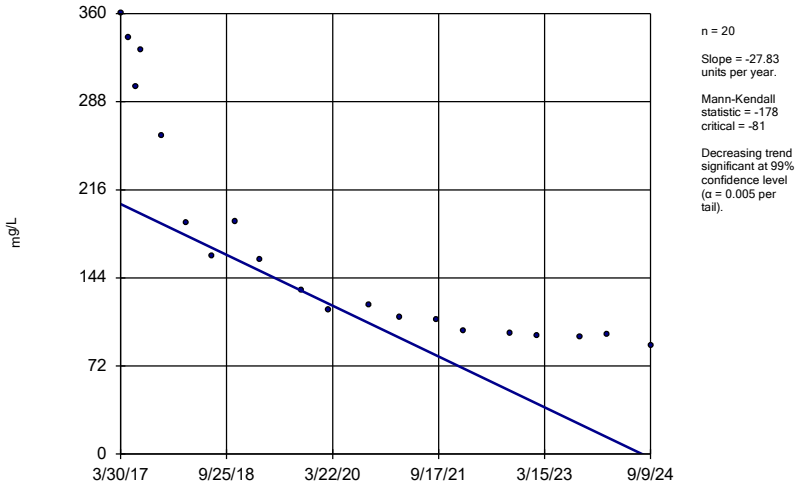
Sen's Slope Estimator

DGWC-2



n = 20

Slope = -27.83 units per year.

Mann-Kendall statistic = -178
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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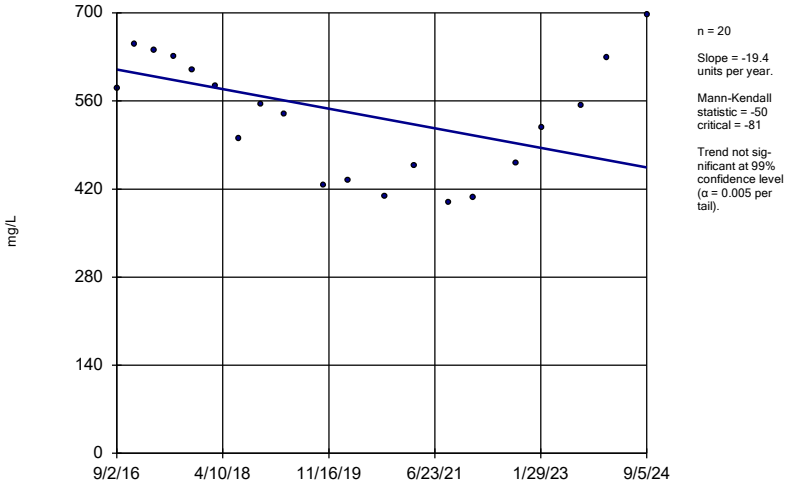
Sen's Slope Estimator

DGWC-20



n = 20

Slope = -19.4 units per year.

Mann-Kendall statistic = -50 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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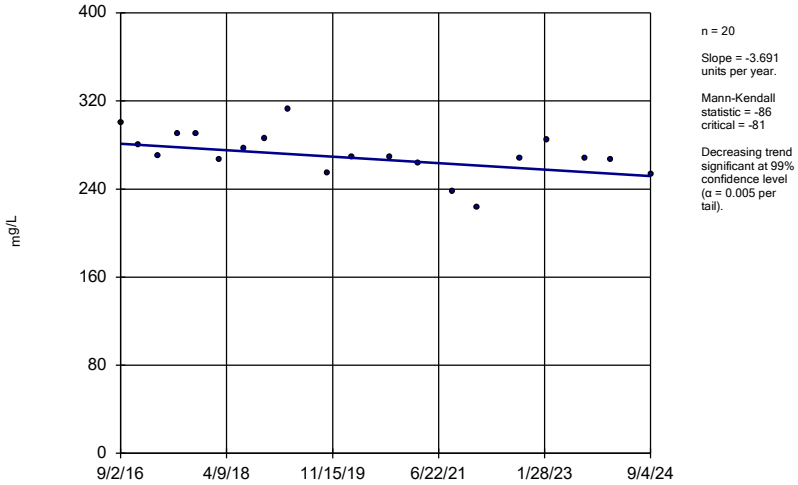
Sen's Slope Estimator

DGWC-21



n = 20

Slope = -3.691 units per year.

Mann-Kendall statistic = -86 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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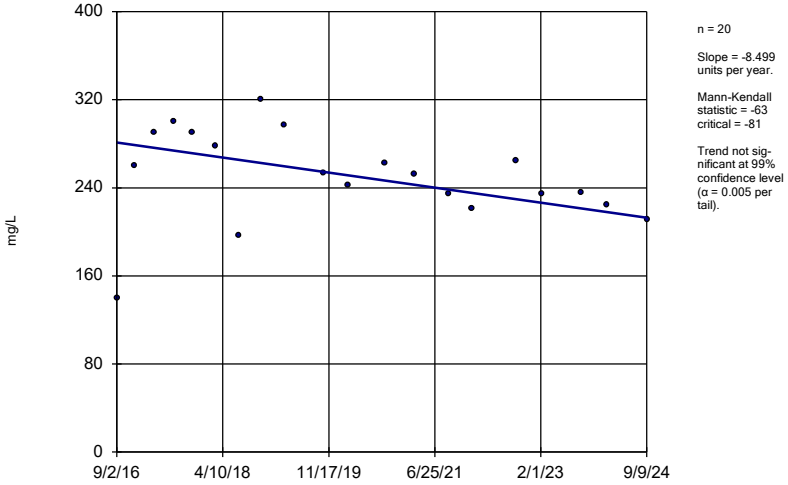
Sen's Slope Estimator

DGWC-22



n = 20

Slope = -8.499 units per year.

Mann-Kendall statistic = -63 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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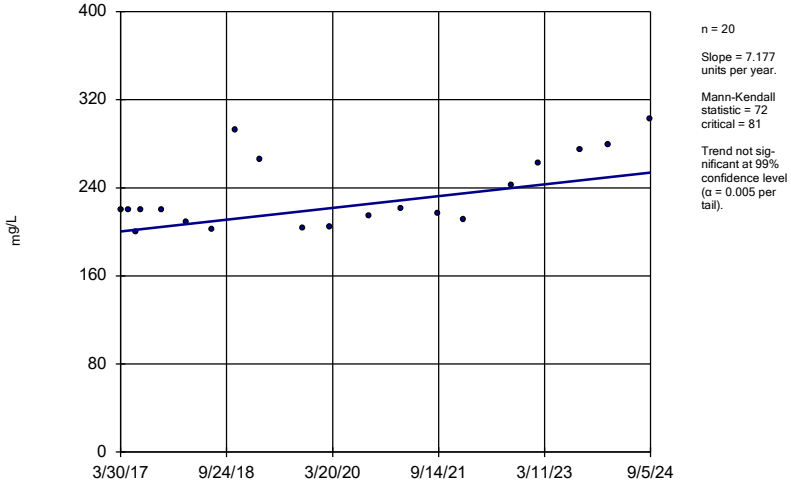
Sen's Slope Estimator

DGWC-23



n = 20

Slope = 7.177 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 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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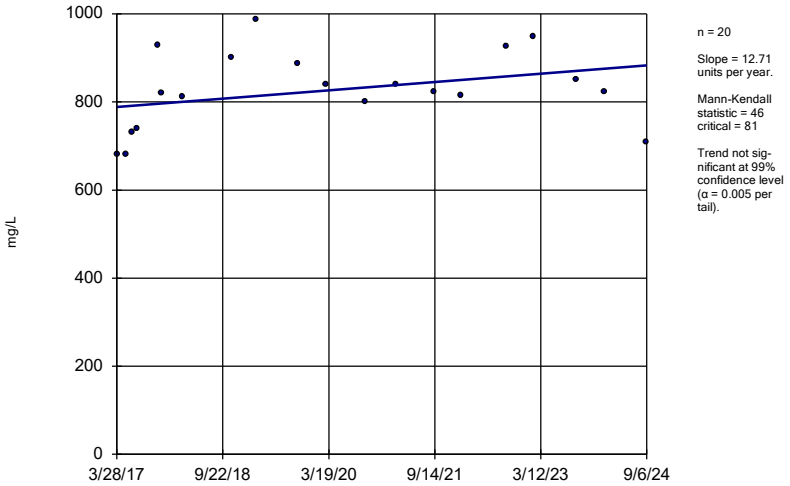
Sen's Slope Estimator

DGWC-4



n = 20

Slope = 12.71 units per year.

Mann-Kendall statistic = 46 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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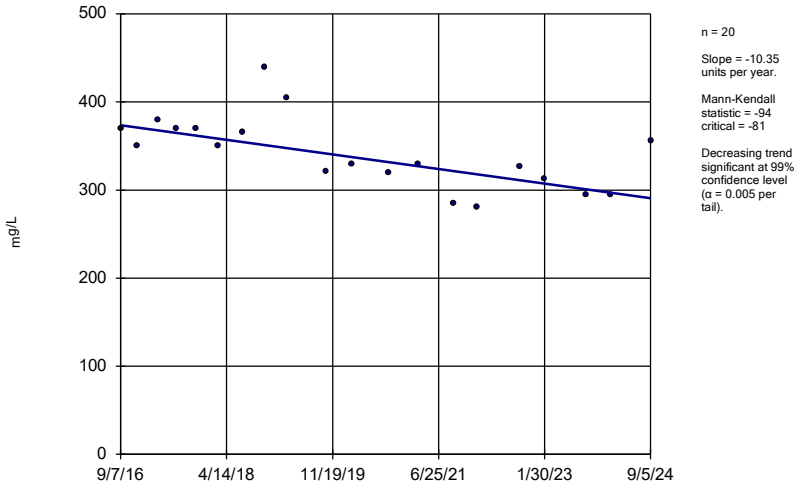
Sen's Slope Estimator

DGWC-42



n = 20

Slope = -10.35 units per year.

Mann-Kendall statistic = -94 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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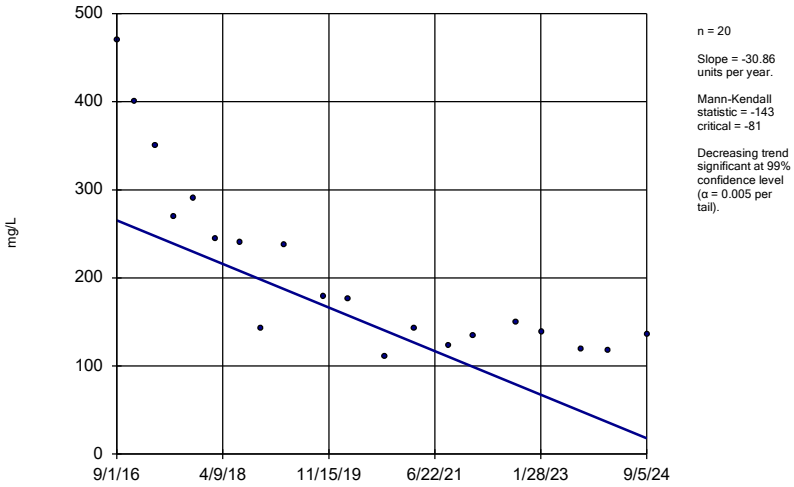
Sen's Slope Estimator

DGWC-47



n = 20

Slope = -30.86 units per year.

Mann-Kendall statistic = -143 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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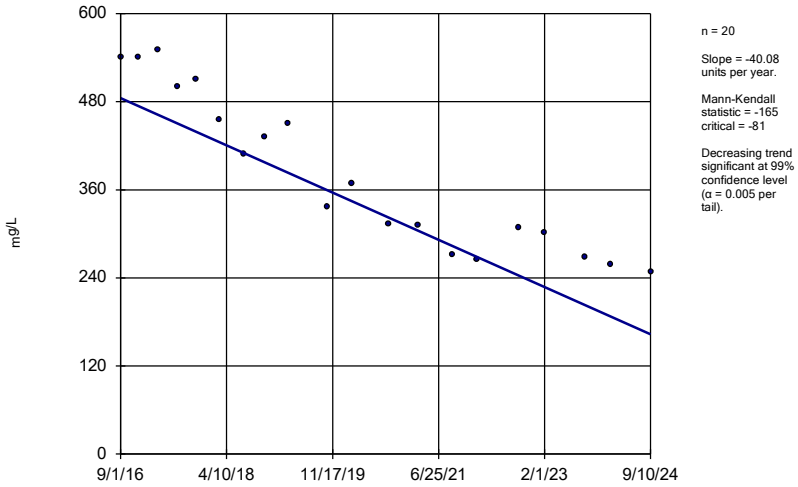
Sen's Slope Estimator

DGWC-48



n = 20

Slope = -40.08 units per year.

Mann-Kendall statistic = -165 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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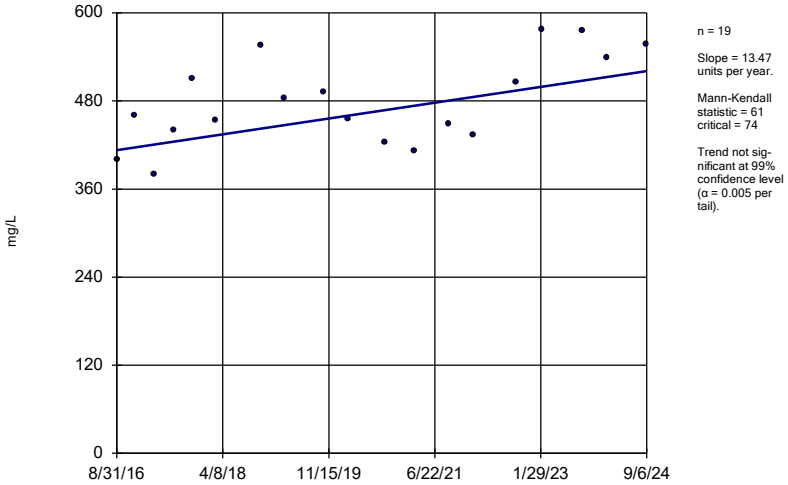
Sen's Slope Estimator

DGWC-5



n = 19

Slope = 13.47 units per year.

Mann-Kendall statistic = 61 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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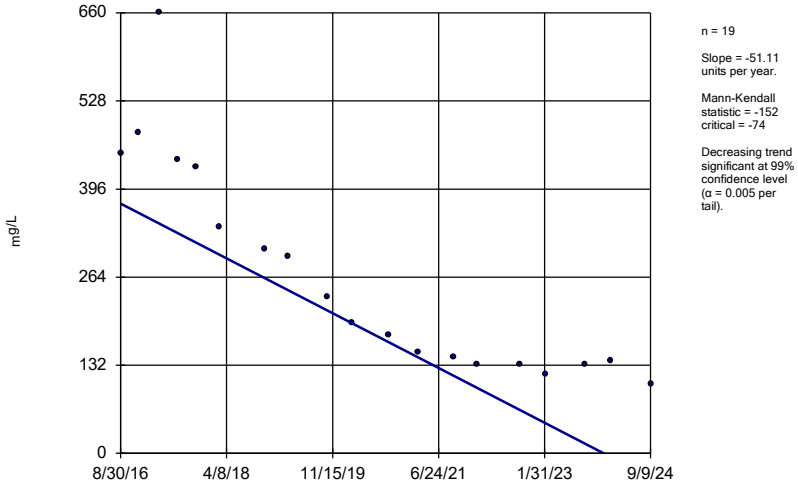
Sen's Slope Estimator

DGWC-8



n = 19

Slope = -51.11 units per year.

Mann-Kendall statistic = -152 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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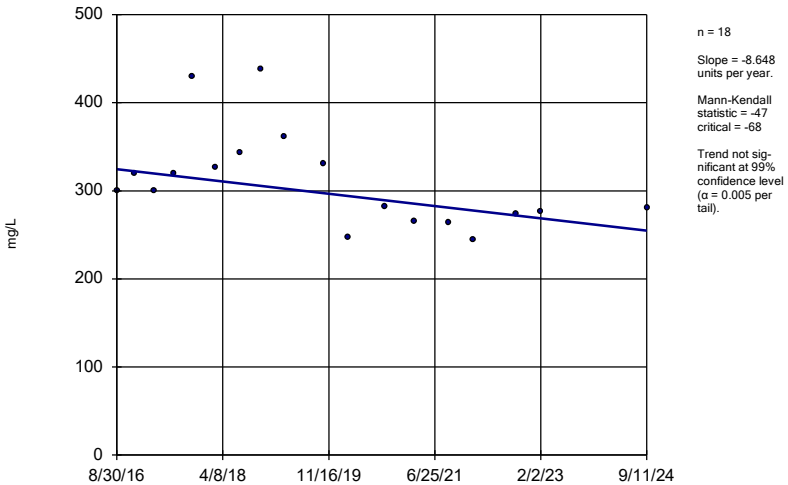
Sen's Slope Estimator

DGWC-9



n = 18

Slope = -8.648 units per year.

Mann-Kendall statistic = -47 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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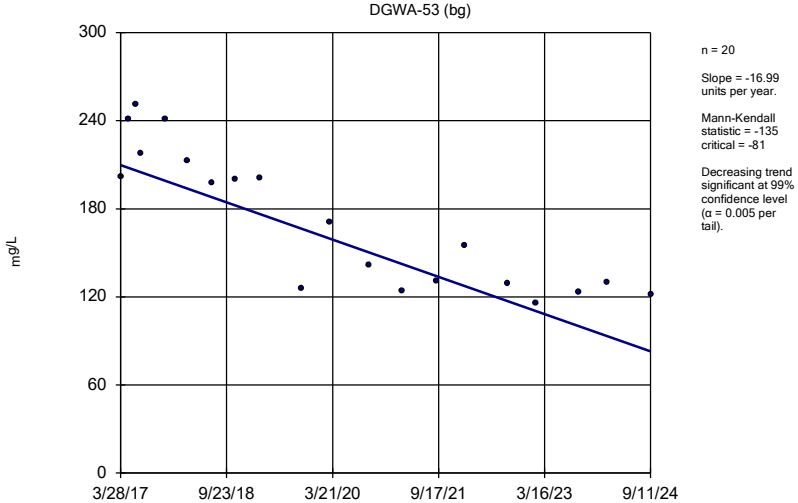
Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -16.99 units per year.

Mann-Kendall statistic = -135 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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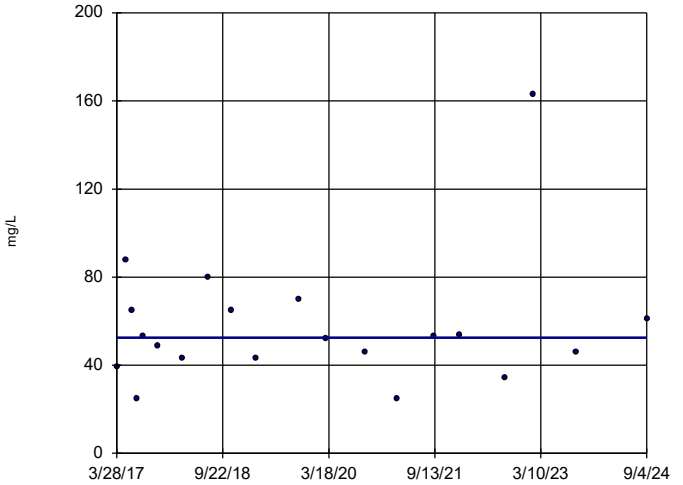
Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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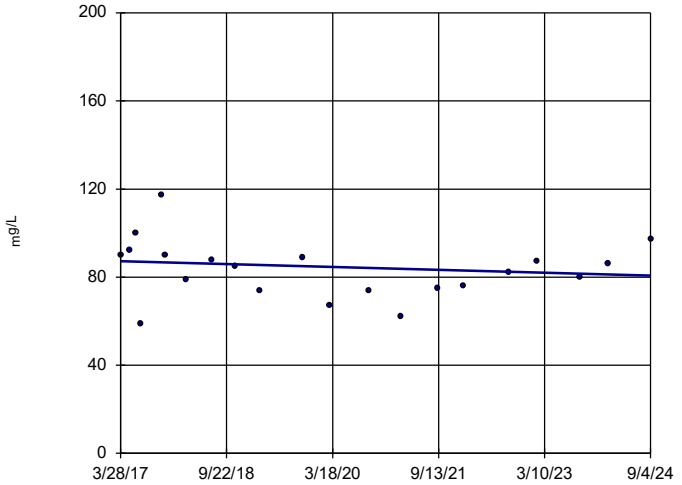
Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = -0.8828 units per year.

Mann-Kendall statistic = -30 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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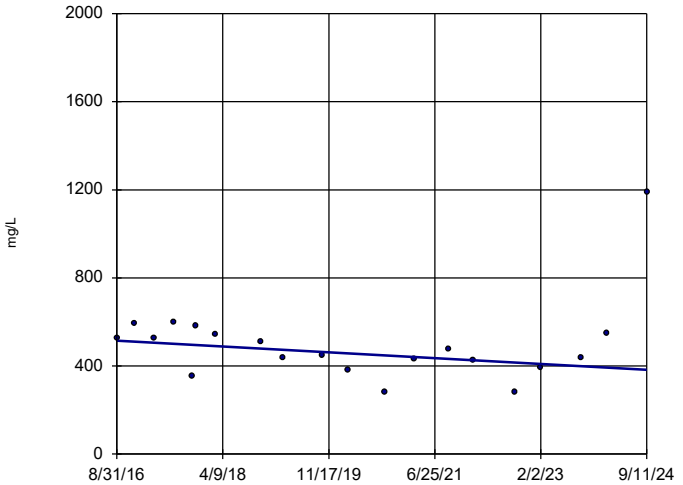
Sen's Slope Estimator

DGWC-10



n = 20

Slope = -16.46 units per year.

Mann-Kendall statistic = -44 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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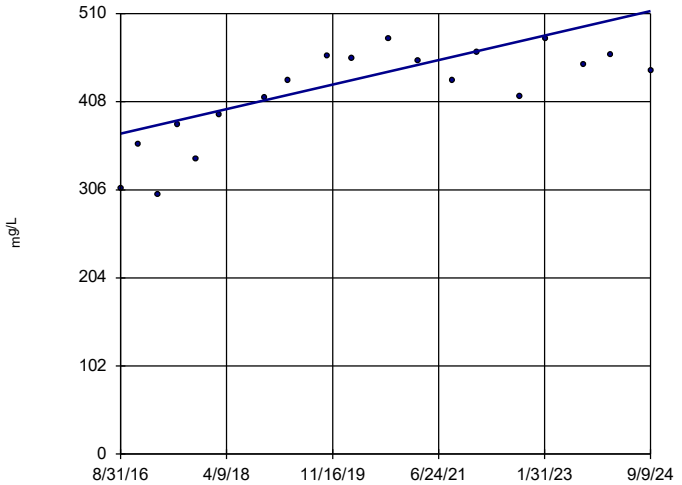
Sen's Slope Estimator

DGWC-11



n = 19

Slope = 17.7 units per year.

Mann-Kendall statistic = 95 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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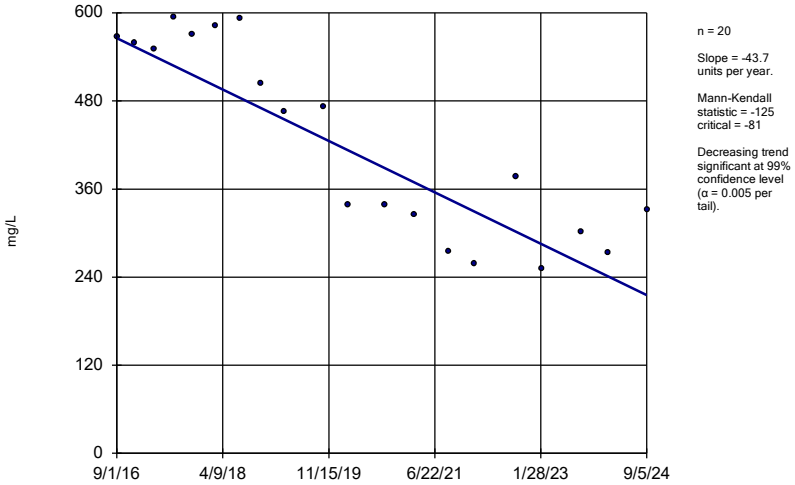
Sen's Slope Estimator

DGWC-12



n = 20

Slope = -43.7 units per year.

Mann-Kendall statistic = -125 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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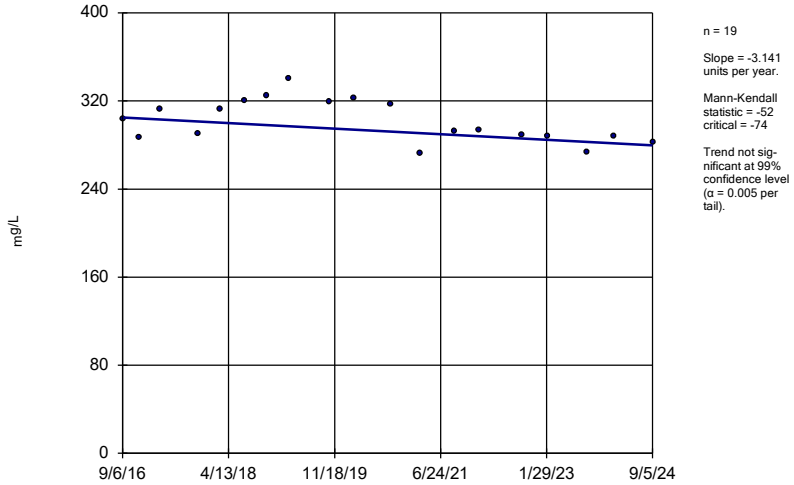
Sen's Slope Estimator

DGWC-15



n = 19

Slope = -3.141 units per year.

Mann-Kendall statistic = -52 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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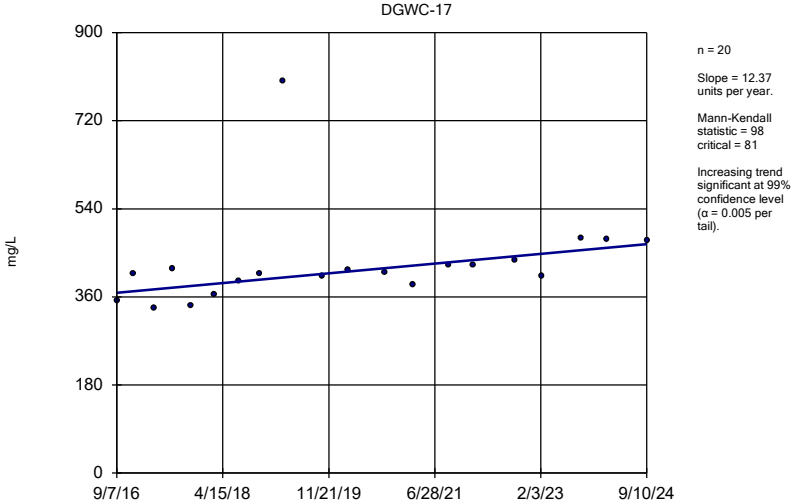
Sen's Slope Estimator

DGWC-17



n = 20

Slope = 12.37 units per year.

Mann-Kendall statistic = 98 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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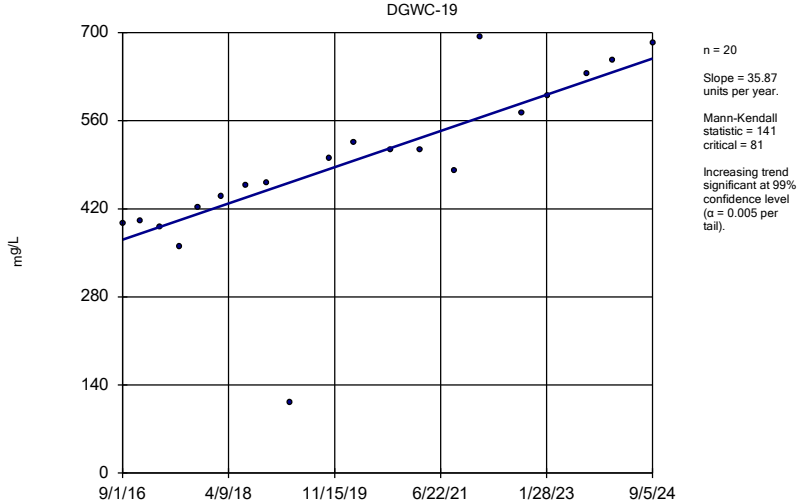
Sen's Slope Estimator

DGWC-19



n = 20

Slope = 35.87 units per year.

Mann-Kendall statistic = 141 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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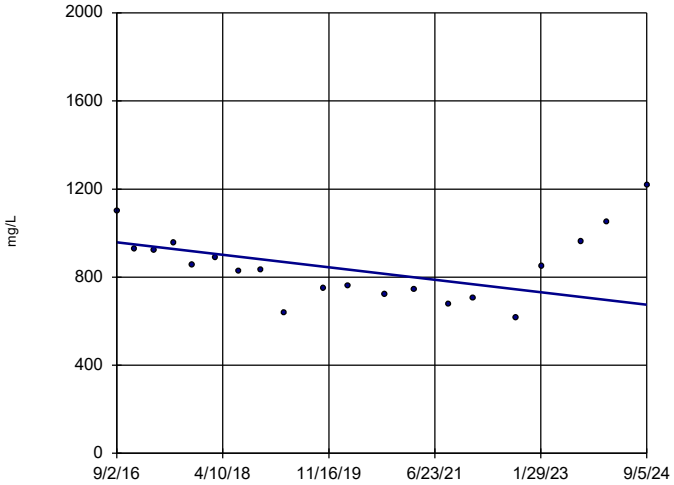
Sen's Slope Estimator

DGWC-20



n = 20

Slope = -35.45 units per year.

Mann-Kendall statistic = -40
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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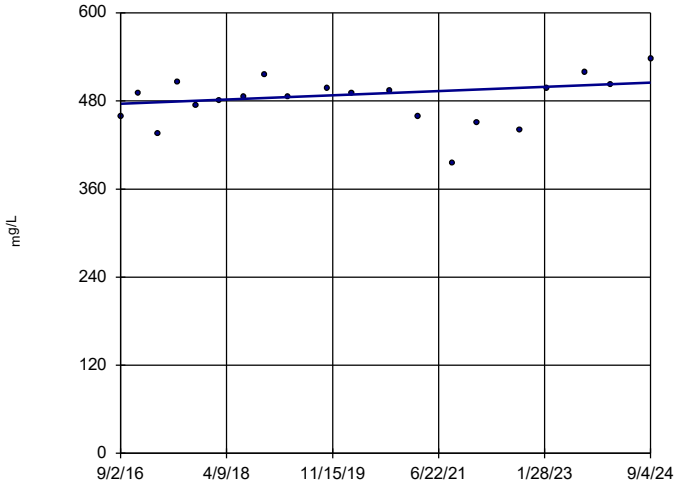
Sen's Slope Estimator

DGWC-21



n = 20

Slope = 3.621 units per year.

Mann-Kendall statistic = 42
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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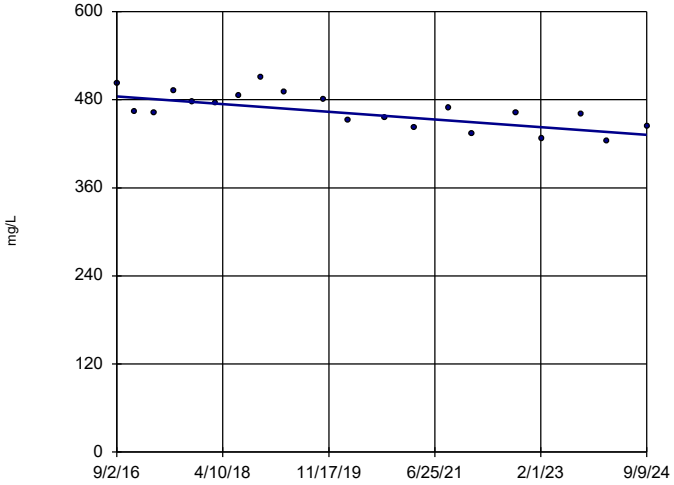
Sen's Slope Estimator

DGWC-22



n = 20

Slope = -6.547 units per year.

Mann-Kendall statistic = -99
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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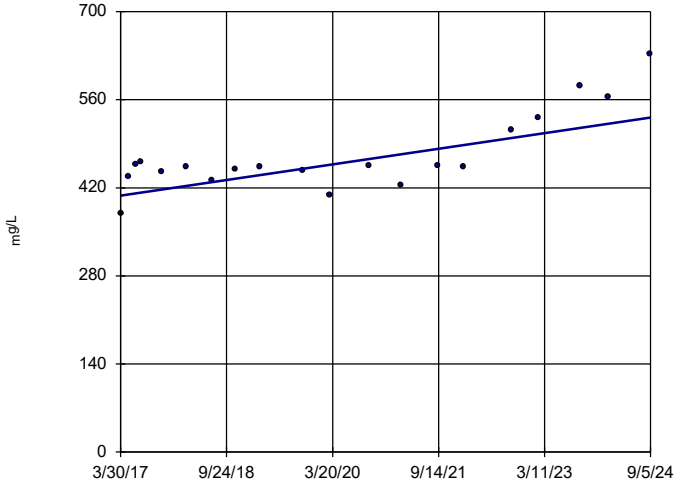
Sen's Slope Estimator

DGWC-23



n = 20

Slope = 16.66 units per year.

Mann-Kendall statistic = 89
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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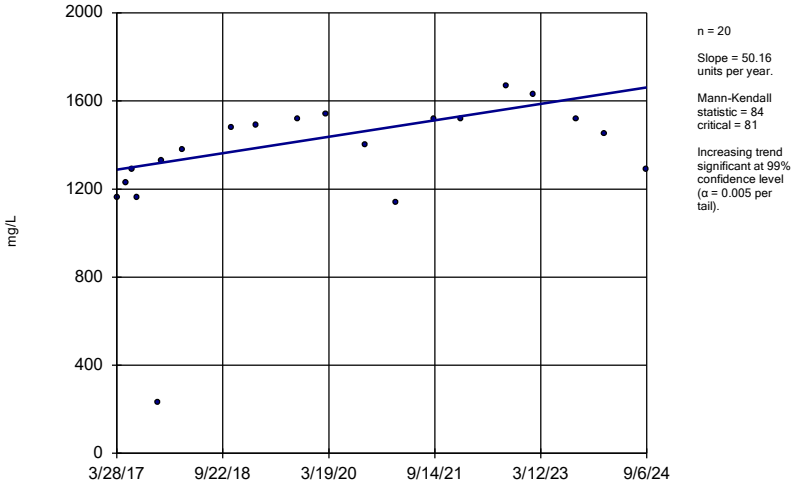
Sen's Slope Estimator

DGWC-4



n = 20

Slope = 50.16 units per year.

Mann-Kendall statistic = 84 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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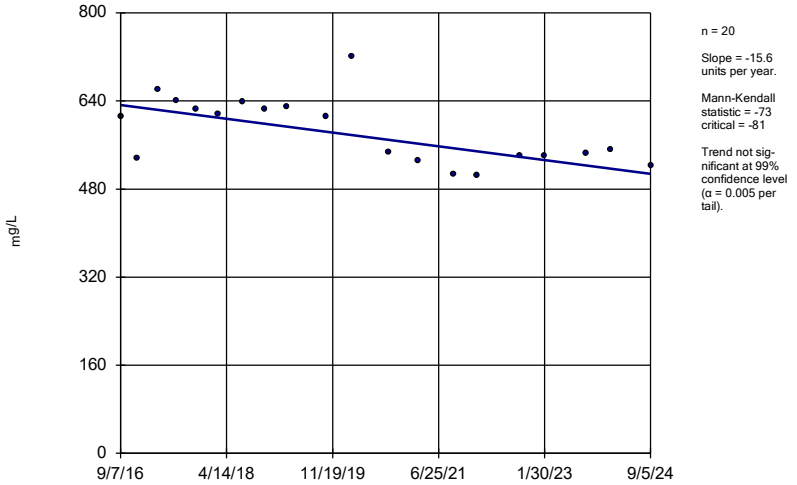
Sen's Slope Estimator

DGWC-42



n = 20

Slope = -15.6 units per year.

Mann-Kendall statistic = -73 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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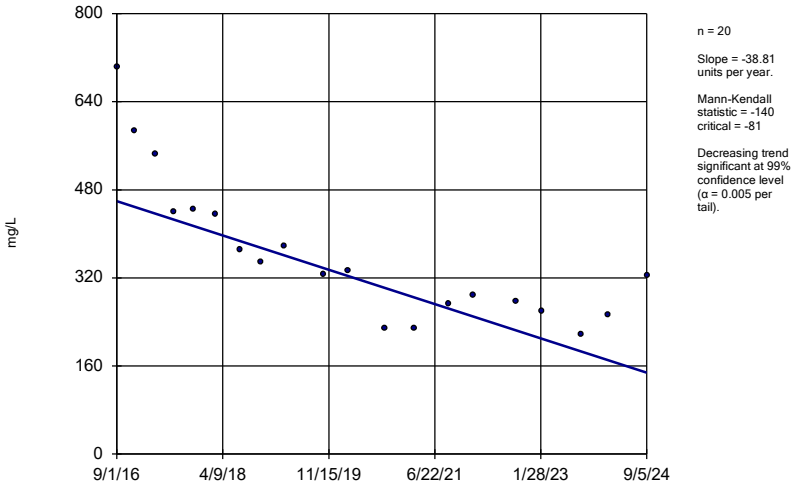
Sen's Slope Estimator

DGWC-47



n = 20

Slope = -38.81 units per year.

Mann-Kendall statistic = -140 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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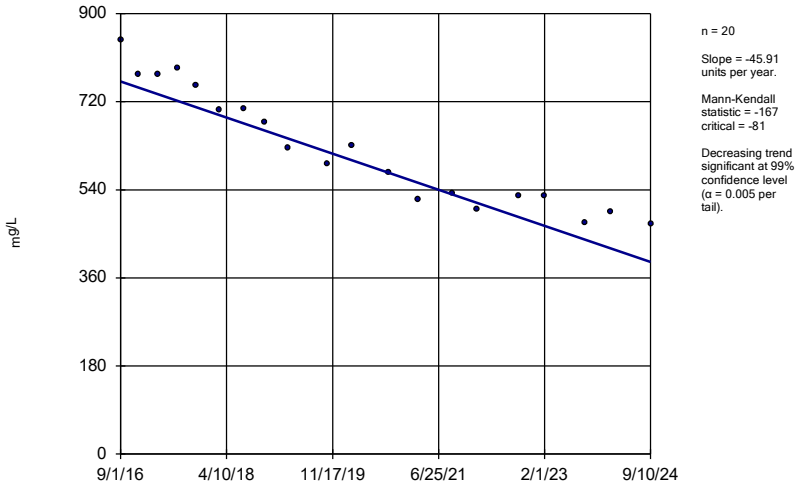
Sen's Slope Estimator

DGWC-48



n = 20

Slope = -45.91 units per year.

Mann-Kendall statistic = -167 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr

Plant McDonough Client: Southern Company Data: McDonough AP

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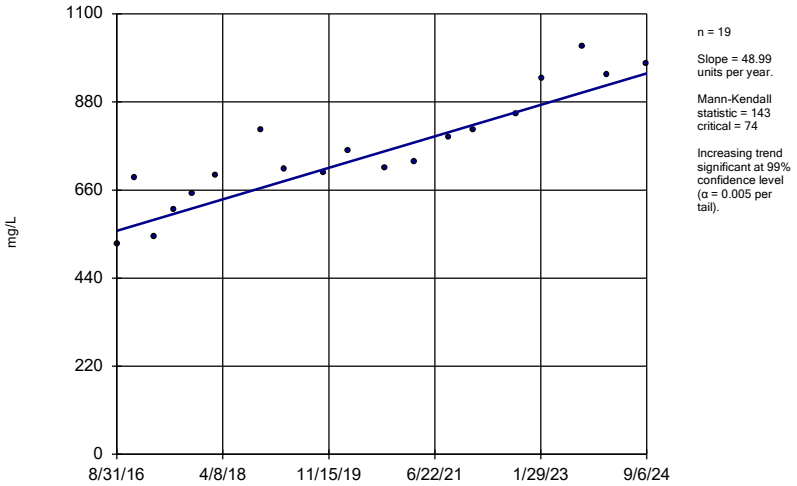
Sen's Slope Estimator

DGWC-5



n = 19

Slope = 48.99 units per year.

Mann-Kendall statistic = 143
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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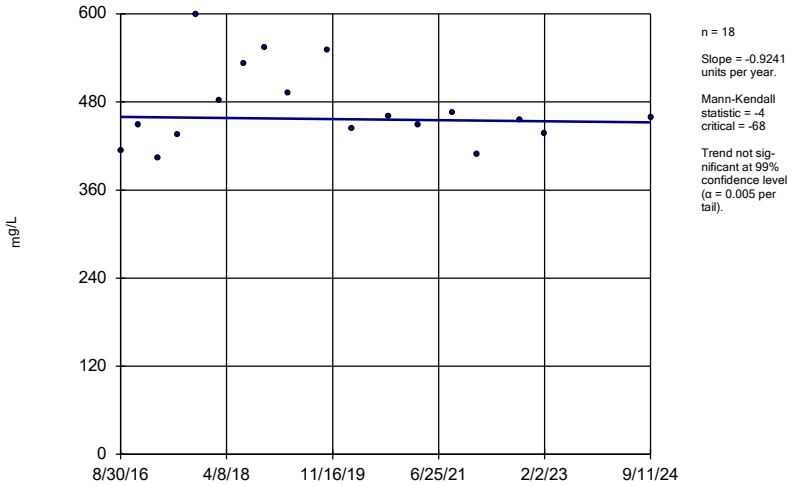
Sen's Slope Estimator

DGWC-9



n = 18

Slope = -0.9241 units per year.

Mann-Kendall statistic = -4
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/4/2024 12:04 PM View: AP 234 Appendix III Tr
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

Trend Test Summary - Cobalt DGWA-53

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/5/2024, 11:35 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.00312**	**-136**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**

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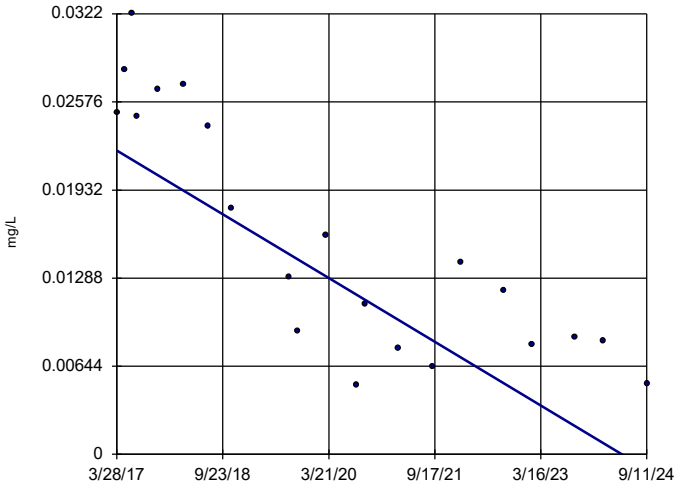
Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = -0.00312 units per year.

Mann-Kendall statistic = -136
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/5/2024 11:34 AM View: AP 234 Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE G.

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/5/2024, 12:12 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0045	n/a	n/a	n/a	n/a	63	84.13	n/a	0.0395	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	63	76.19	n/a	0.0395	NP Inter(NDs)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	63	0	n/a	0.0395	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	63	53.97	n/a	0.0395	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	63	93.65	n/a	0.0395	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	62	72.58	n/a	0.04158	NP Inter(NDs)
Cobalt (mg/L)	0.024	n/a	n/a	n/a	n/a	57	50.88	n/a	0.05373	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	4.624	n/a	n/a	n/a	n/a	63	0	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	67	46.27	n/a	0.03217	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	63	85.71	n/a	0.0395	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	63	38.1	n/a	0.0395	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	63	84.13	n/a	0.0395	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	63	65.08	n/a	0.0395	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	63	100	n/a	0.0395	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	63	95.24	n/a	0.0395	NP Inter(NDs)

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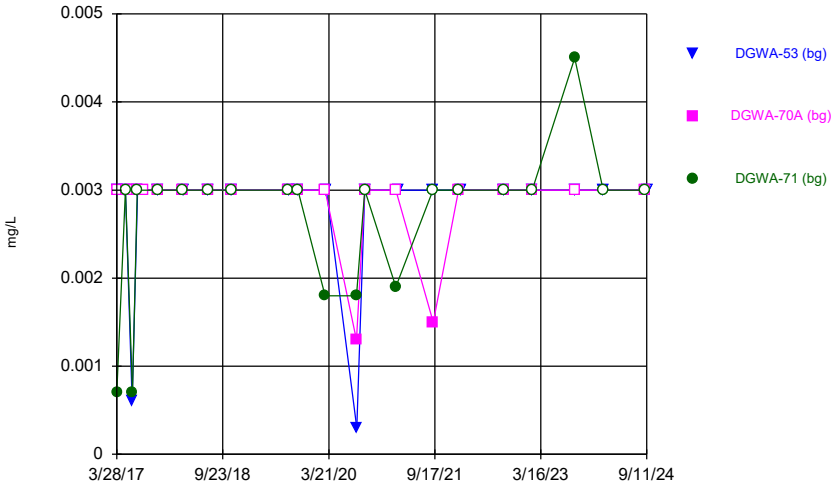
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

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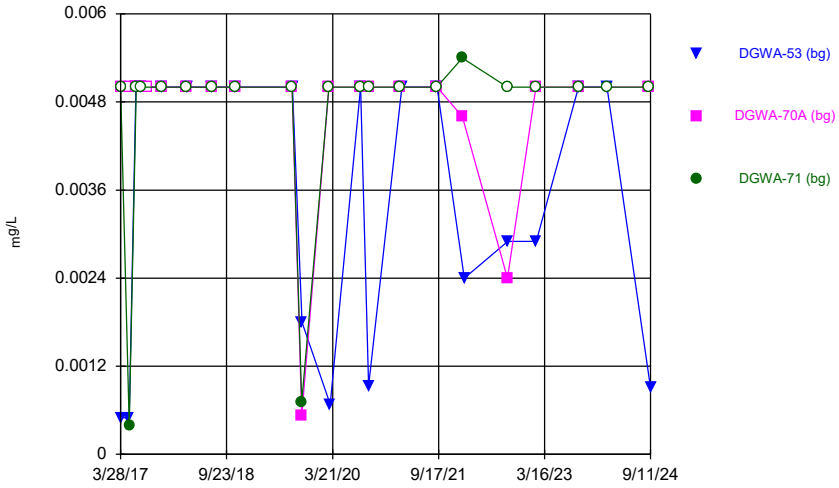
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

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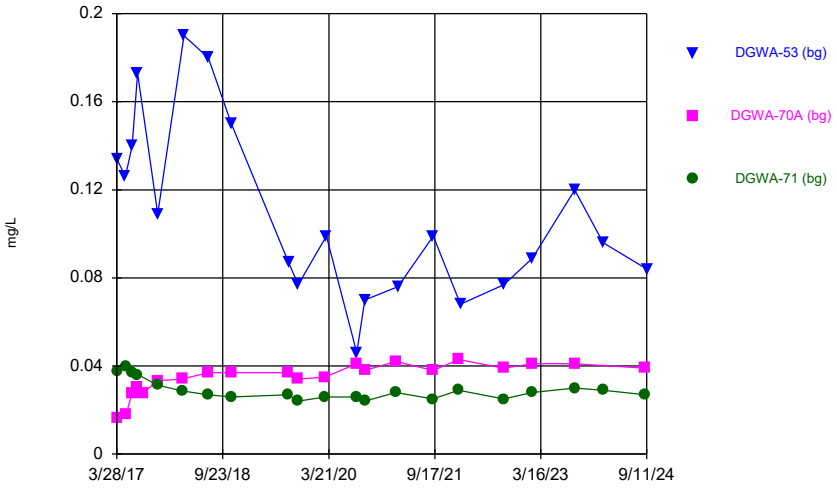
Time Series



Constituent: Barium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

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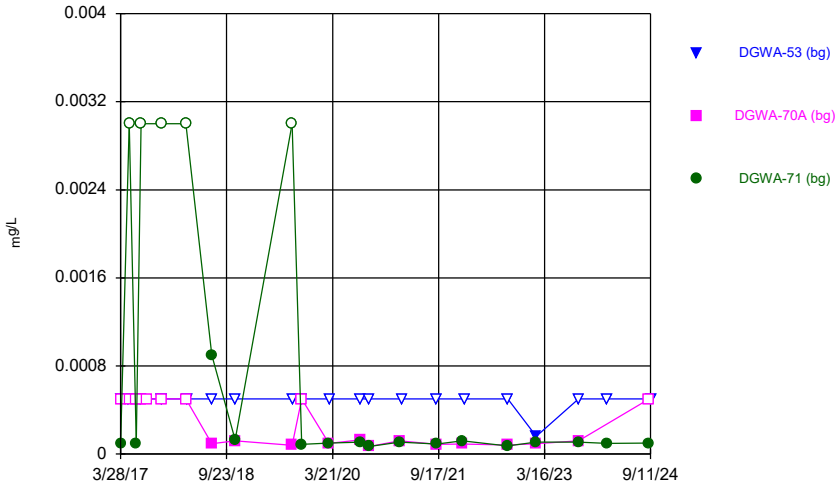
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

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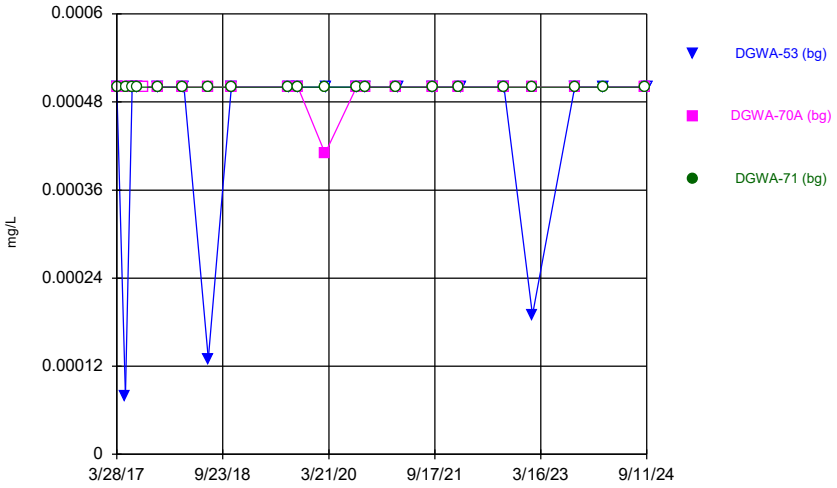
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

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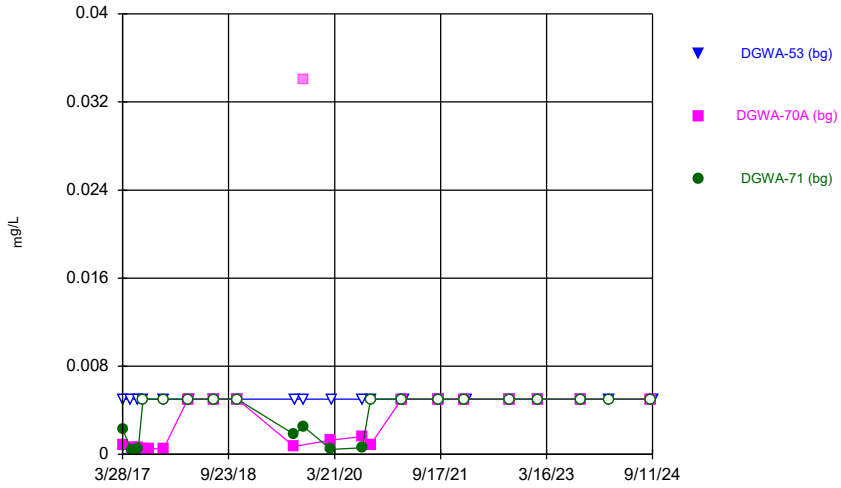
Hollow symbols indicate censored values.

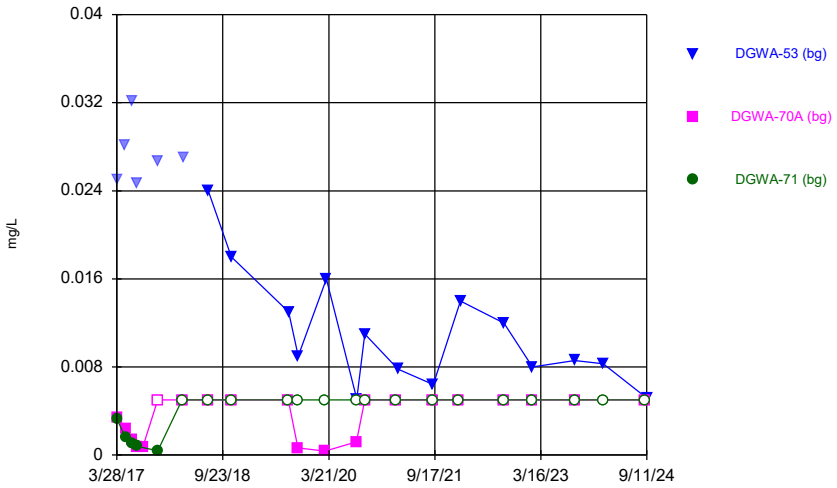
Time Series



Constituent: Chromium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

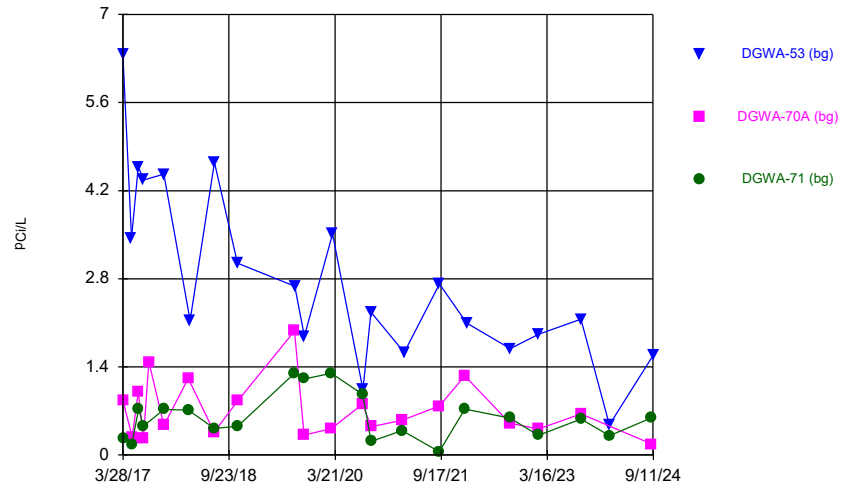
Time Series



Constituent: Cobalt Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

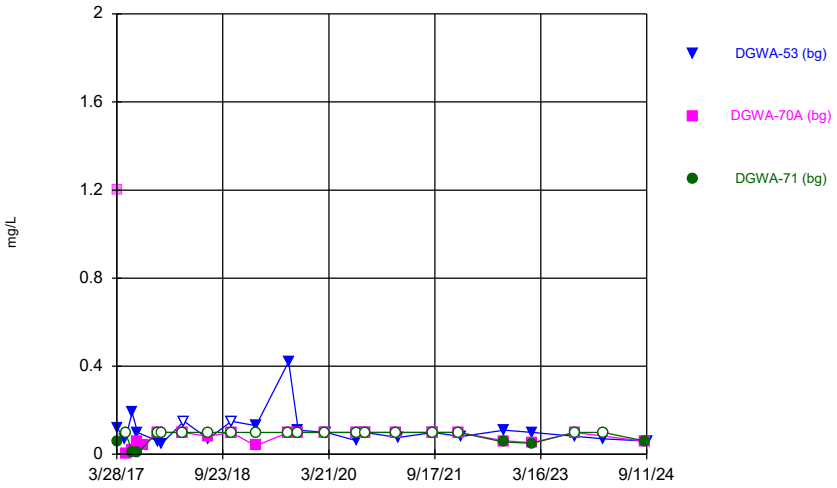
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

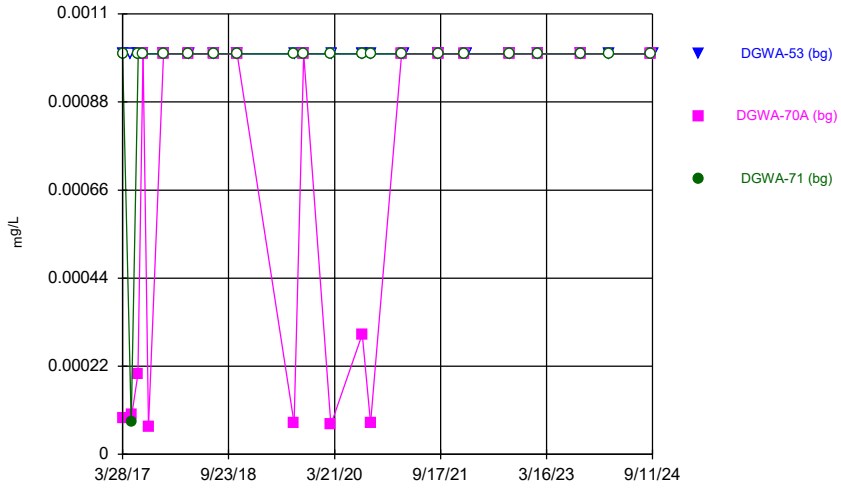
Time Series



Constituent: Fluoride Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

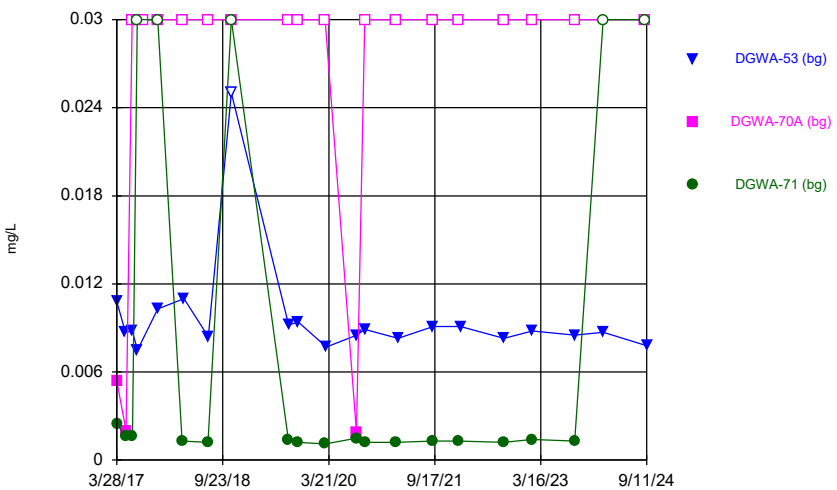
Time Series



Constituent: Lead Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

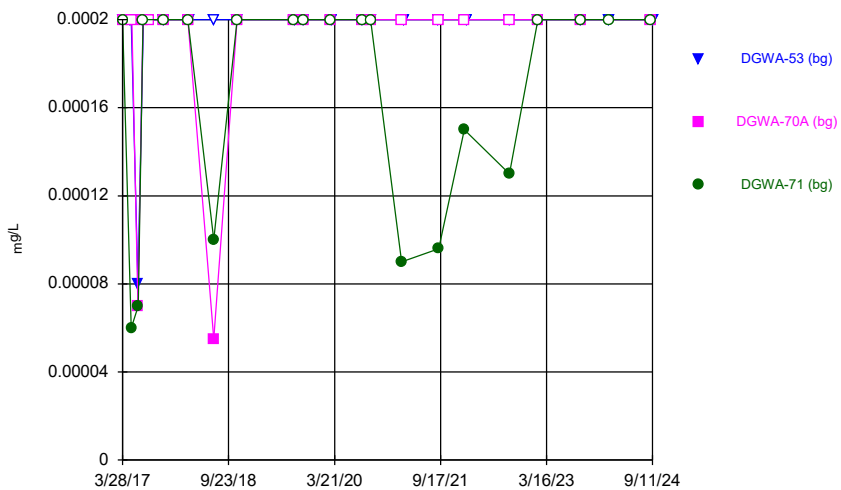
Time Series



Constituent: Lithium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

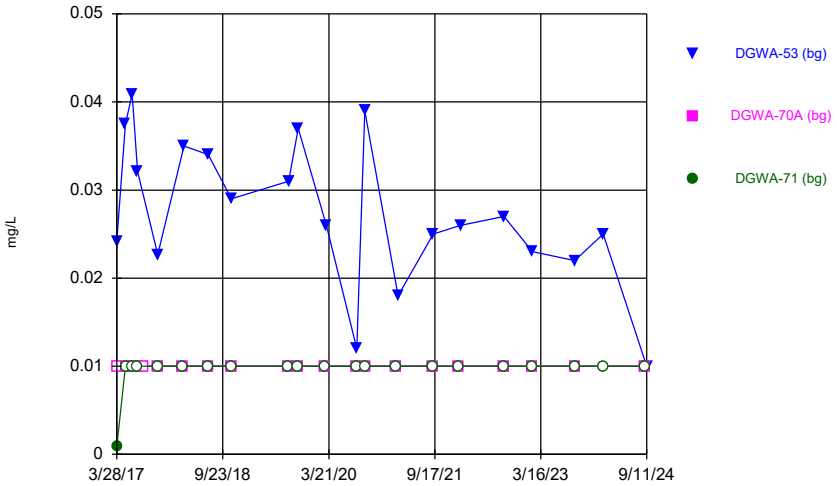
Time Series



Constituent: Mercury Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

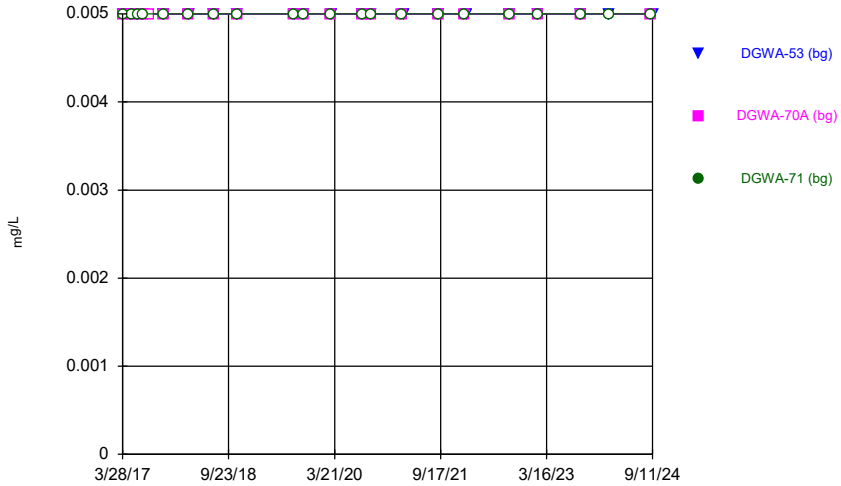
Time Series



Constituent: Molybdenum Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

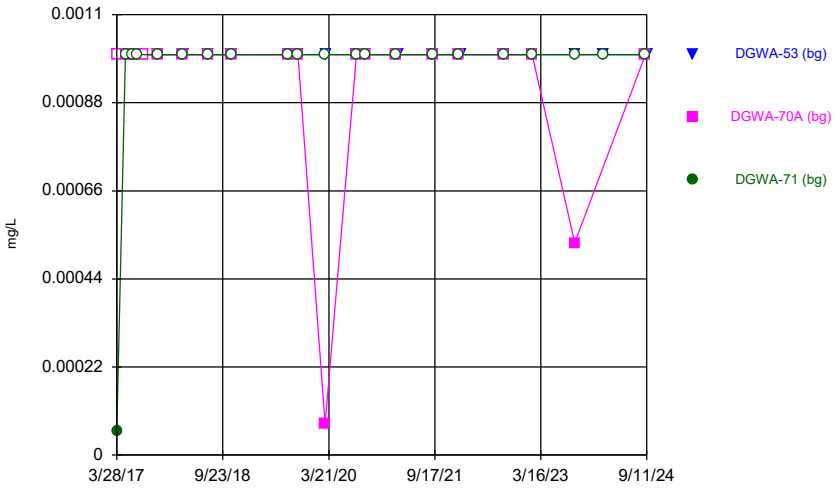
Time Series



Constituent: Selenium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

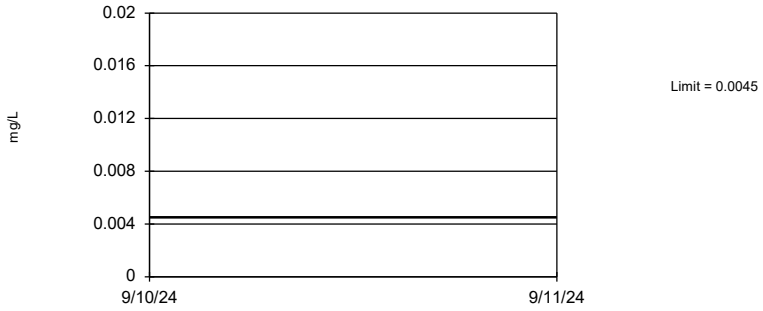


Constituent: Thallium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



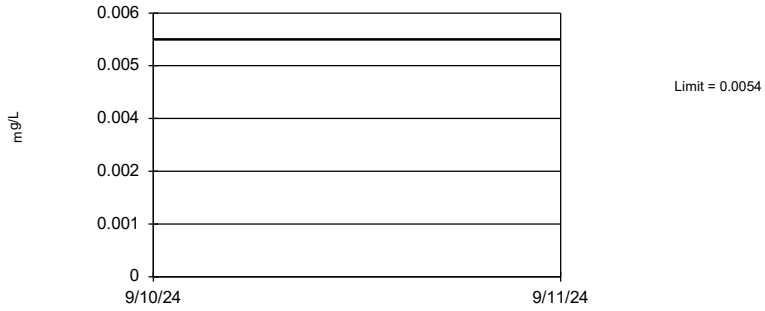
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 63 background values. 84.13% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Antimony Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



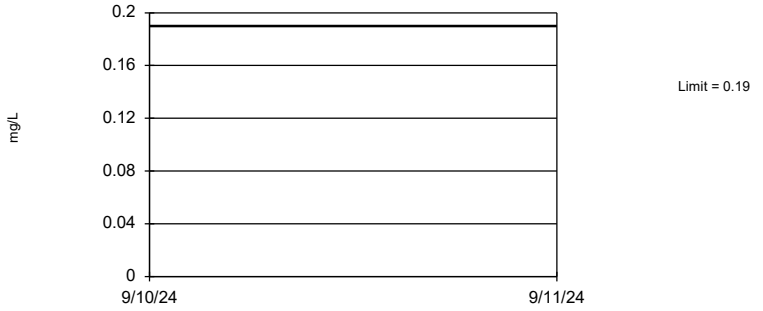
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 63 background values. 76.19% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Arsenic Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



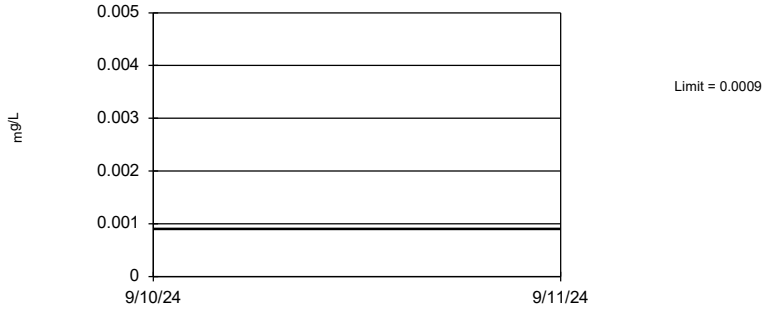
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 63 background values. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Barium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



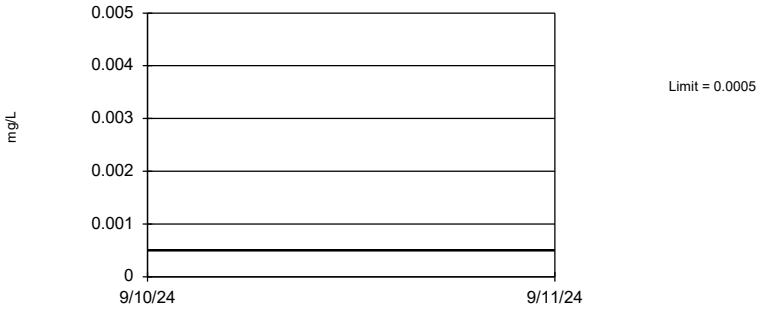
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 63 background values. 53.97% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Beryllium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 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 63 background values. 93.65% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Cadmium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

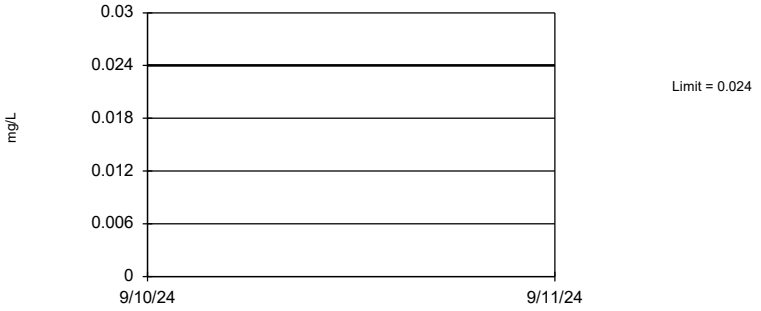
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 62 background values. 72.58% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04158.

Constituent: Chromium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



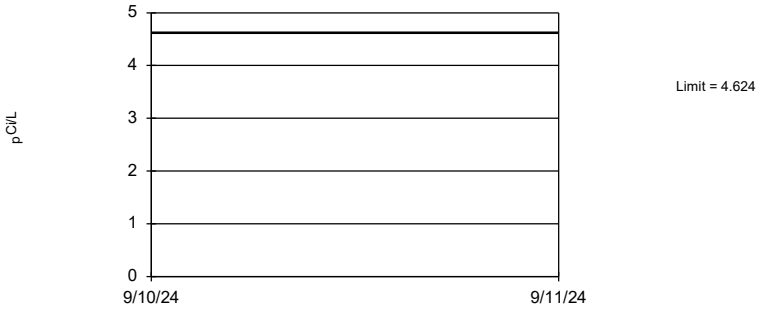
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 57 background values. 50.88% NDs. 92.38% coverage at alpha=0.01; 94.73% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.05373.

Constituent: Cobalt Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Parametric



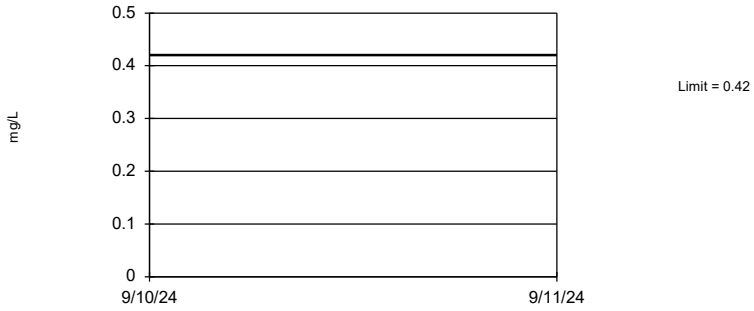
95% coverage. Background Data Summary (based on cube root transformation): Mean=1.01, Std. Dev.=0.3267, n=63. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9615, critical = 0.947. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



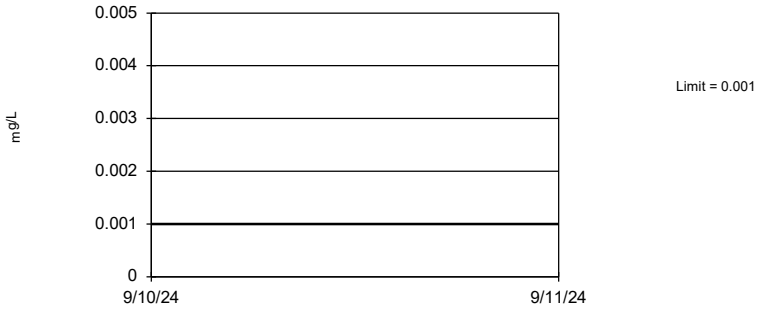
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 67 background values. 46.27% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03217.

Constituent: Fluoride Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 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 63 background values. 85.71% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Lead Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

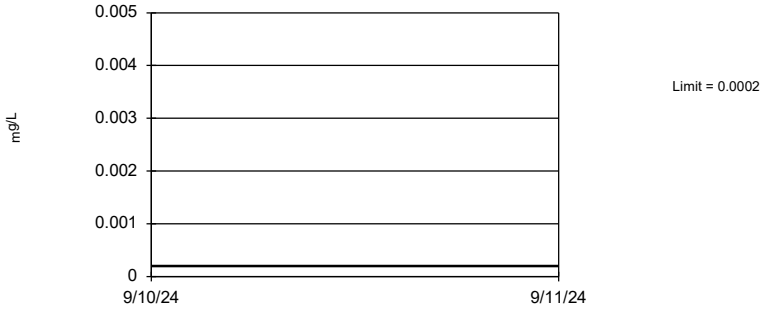
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 63 background values. 38.1% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Lithium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 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 63 background values. 84.13% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Mercury Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 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 63 background values. 65.08% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Molybdenum Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 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. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Selenium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23 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 63 background values. 95.24% NDs. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Thallium Analysis Run 12/5/2024 12:10 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE H.

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0045	0.006
Arsenic, Total (mg/L)	0.01		0.0054	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.024	0.024
Combined Radium, Total (pCi/L)	5		4.62	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE I.

Appendix IV - Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02703	0.01578	0.01	Yes	19	0.02141	0.009602	5.263	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.01907	0.01404	0.004	Yes	9	0.01656	0.002603	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01659	0.01236	0.004	Yes	11	0.01435	0.002967	0	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.0086	0.00617	0.004	Yes	20	0.007385	0.00214	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01169	0.008771	0.004	Yes	21	0.01023	0.002642	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008593	0.00695	0.004	Yes	21	0.007771	0.001489	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008599	0.006791	0.004	Yes	20	0.007695	0.001592	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005672	0.004905	0.004	Yes	19	0.005305	0.0006794	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	B-104D	0.1824	0.1194	0.024	Yes	10	0.15	0.03742	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-56	0.06273	0.04507	0.024	Yes	10	0.0539	0.009893	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.04746	0.03372	0.024	Yes	11	0.04059	0.008249	0	None	No	0.01	Param.
Cobalt (mg/L)	B-92	0.08067	0.04561	0.024	Yes	7	0.06314	0.01476	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06595	0.04997	0.024	Yes	11	0.05591	0.01374	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1639	0.105	0.024	Yes	20	0.1345	0.05179	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05344	0.05029	0.024	Yes	21	0.05187	0.002855	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.8575	0.5319	0.024	Yes	21	0.7459	0.3849	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3412	0.2332	0.024	Yes	21	0.2872	0.09783	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4647	0.3591	0.024	Yes	21	0.4119	0.09573	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.06958	0.02598	0.024	Yes	20	0.04778	0.03839	5	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2139	0.1582	0.024	Yes	19	0.1861	0.04757	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	15.61	10.42	5	Yes	10	13.02	2.911	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-122D	16.85	5.536	5	Yes	5	11.19	3.375	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.08374	0.05151	0.04	Yes	8	0.06763	0.0152	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.06839	0.05259	0.04	Yes	21	0.06049	0.01431	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1196	0.1008	0.04	Yes	21	0.1102	0.0171	0	None	No	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0017	0.006	No	10	0.0027	0.0006394	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-101D	0.003	0.00039	0.006	No	9	0.001859	0.001158	44.44	None	No	0.002	NP (normality)
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	10	0.00266	0.0007306	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00077	0.006	No	10	0.002104	0.001163	60	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	9	0.00272	0.00084	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-111D	0.003	0.0016	0.006	No	10	0.00262	0.0008351	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	8	0.002661	0.0009581	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-122D	0.003	0.0006	0.006	No	5	0.00252	0.001073	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.003	0.006	No	10	0.00281	0.0006008	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	13	0.002805	0.0007045	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.003	0.006	No	10	0.002766	0.00074	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00043	0.006	No	12	0.002368	0.001144	75	None	No	0.01	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	10	0.002486	0.0008386	70	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	7	0.002714	0.0007559	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	20	0.002955	0.0002012	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	21	0.002814	0.0005868	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	21	0.002765	0.0007456	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	21	0.002879	0.0005565	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.0013	0.006	No	21	0.002793	0.0006694	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	21	0.002886	0.0005237	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-20	0.003	0.0018	0.006	No	21	0.002943	0.0002619	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	21	0.002919	0.000371	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	21	0.00289	0.0005019	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0028	0.006	No	20	0.002634	0.0008691	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0014	0.006	No	21	0.002838	0.0005123	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	21	0.002819	0.0006149	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	20	0.002675	0.0008176	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.0021	0.006	No	20	0.002828	0.0005925	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	9	0.004633	0.0011	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.0019	0.01	No	10	0.003883	0.00157	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-106D	0.005	0.0024	0.01	No	9	0.004711	0.0008667	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-107D	0.005	0.0022	0.01	No	9	0.004689	0.0009333	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-108D	0.008	0.0026	0.01	No	9	0.005067	0.001356	77.78	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0023	0.01	No	10	0.00402	0.001281	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	8	0.004575	0.001202	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-56	0.004566	0.002714	0.01	No	10	0.00364	0.001037	10	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	13	0.004869	0.0004715	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.005	0.01	No	10	0.00472	0.0008854	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-66	0.005	0.0028	0.01	No	13	0.004831	0.0006102	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	12	0.00365	0.001469	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	B-82	0.0059	0.004	0.01	No	12	0.004825	0.0007034	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.005	0.01	No	11	0.004673	0.001085	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	B-92	0.002295	0.001324	0.01	No	7	0.002714	0.001604	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.005	0.0013	0.01	No	10	0.00351	0.001643	50	None	No	0.011	NP (normality)
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	7	0.0041	0.001559	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.007534	0.003353	0.01	No	20	0.00695	0.008802	5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-11	0.005	0.0022	0.01	No	20	0.00486	0.0006261	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	22	0.004601	0.00129	90.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	21	0.00478	0.001006	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	21	0.004407	0.001494	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0012	0.01	No	21	0.003673	0.00191	61.9	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001762	0.0009791	0.01	No	21	0.00253	0.001713	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0027	0.01	No	21	0.004452	0.001196	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.0208	0.009796	0.01	No	21	0.01639	0.01159	0	None	sqrt(x)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-22	0.005	0.0016	0.01	No	21	0.004648	0.001117	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	20	0.004145	0.001758	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	21	0.00461	0.001235	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002455	0.001361	0.01	No	21	0.003048	0.001645	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0015	0.01	No	21	0.0036	0.001866	61.9	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.006417	0.002261	0.01	No	20	0.006925	0.008625	20	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0019	0.01	No	20	0.003928	0.001696	70	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-9**	**0.02703**	**0.01578**	**0.01**	**Yes**	**19**	**0.02141**	**0.009602**	**5.263**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.023	0.019	2	No	10	0.0283	0.02459	0	None	No	0.011	NP (normality)
Barium (mg/L)	B-101D	0.07507	0.05671	2	No	9	0.06589	0.009506	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.0223	0.0193	2	No	10	0.0208	0.001687	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02353	0.01887	2	No	10	0.0212	0.002616	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02285	0.02048	2	No	9	0.02167	0.001225	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1072	0.0404	2	No	9	0.07378	0.03457	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06111	0.04756	2	No	9	0.05433	0.007018	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.03681	0.02599	2	No	10	0.0314	0.006059	0	None	No	0.01	Param.
Barium (mg/L)	B-120D	0.03612	0.01763	2	No	8	0.02688	0.008725	0	None	No	0.01	Param.
Barium (mg/L)	B-122D	0.05202	0.03438	2	No	5	0.0432	0.005263	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.02899	0.02561	2	No	10	0.0273	0.001889	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02401	0.01799	2	No	13	0.021	0.004041	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.0468	0.02086	2	No	10	0.034	0.01568	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-66	0.02511	0.01749	2	No	10	0.0213	0.00427	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.119	0.09831	2	No	12	0.1087	0.0132	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02725	0.02111	2	No	11	0.02418	0.003683	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.034	0.024	2	No	11	0.03027	0.009111	0	None	No	0.006	NP (normality)
Barium (mg/L)	B-88	0.02037	0.01543	2	No	10	0.0179	0.002767	0	None	No	0.01	Param.
Barium (mg/L)	B-92	0.01749	0.01365	2	No	7	0.01557	0.001618	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01821	0.01419	2	No	10	0.0162	0.002251	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.022	0.02	2	No	7	0.02057	0.0007868	0	None	No	0.008	NP (normality)
Barium (mg/L)	B-98	0.1045	0.02951	2	No	7	0.067	0.03156	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02735	0.02172	2	No	20	0.02454	0.004964	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06187	0.04887	2	No	20	0.05537	0.01144	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03852	0.02712	2	No	22	0.0334	0.01124	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03115	0.02535	2	No	20	0.02765	0.006625	5	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-14	0.06192	0.05823	2	No	21	0.06008	0.003343	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.0482	0.04168	2	No	21	0.04494	0.005911	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05055	0.03652	2	No	21	0.04353	0.01271	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02518	0.02243	2	No	21	0.0238	0.002497	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02265	0.02135	2	No	21	0.022	0.001183	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01579	0.01098	2	No	21	0.01339	0.004357	4.762	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	21	0.02526	0.001805	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03561	0.03053	2	No	21	0.03307	0.004609	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02335	0.01942	2	No	21	0.02138	0.003561	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-4	0.03532	0.03174	2	No	20	0.03353	0.003147	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01891	0.01562	2	No	21	0.01735	0.003125	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01995	0.0169	2	No	21	0.01842	0.002764	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0143	0.01323	2	No	21	0.01377	0.0009723	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01807	0.01639	2	No	19	0.01723	0.001431	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03388	0.02422	2	No	20	0.02905	0.008503	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01657	0.01512	2	No	19	0.01584	0.001239	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005558	0.0003722	0.004	No	10	0.000464	0.0001029	10	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.0005	0.000047	0.004	No	9	0.0002099	0.0002177	33.33	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-102D	0.001236	0.0008502	0.004	No	10	0.001043	0.0002161	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001555	0.001141	0.004	No	10	0.001348	0.0002317	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001657	0.00007882	0.004	No	9	0.0001222	0.00005228	11.11	None	x^(1/3)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	9	0.00045	0.00015	88.89	None	No	0.002	NP (NDs)
Beryllium (mg/L)	B-108D	0.00058	0.0005	0.004	No	9	0.0005089	0.00002667	88.89	None	No	0.002	NP (NDs)
Beryllium (mg/L)	B-120D	0.001069	0.0007459	0.004	No	8	0.0009075	0.0001525	0	None	No	0.01	Param.
Beryllium (mg/L)	B-122D	0.0005545	0.0002215	0.004	No	5	0.000388	0.00009935	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.0013	0.0012	0.004	No	10	0.00123	0.00006749	0	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-62	0.00018	0.00009	0.004	No	14	0.0002863	0.0004091	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-63	0.00053	0.0003	0.004	No	12	0.0004842	0.0003297	8.333	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-66	0.0005	0.00019	0.004	No	12	0.0004742	0.00008949	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	B-77	0.0005	0.000057	0.004	No	12	0.0003325	0.0002085	58.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	B-82	0.001876	0.001415	0.004	No	11	0.001645	0.000277	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.00044	0.00028	0.004	No	11	0.0003936	0.0001122	0	None	No	0.006	NP (normality)
Beryllium (mg/L)	B-88	0.002448	0.0009542	0.004	No	10	0.001763	0.0012	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.01907**	**0.01404**	**0.004**	**Yes**	**9**	**0.01656**	**0.002603**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01659**	**0.01236**	**0.004**	**Yes**	**11**	**0.01435**	**0.002967**	**0**	**None**	**x^2**	**0.01**	**Param.**
Beryllium (mg/L)	B-97	0.001811	0.001589	0.004	No	10	0.0017	0.0001247	10	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.0005	0.000068	0.004	No	10	0.00042	0.0002453	60	None	No	0.011	NP (NDs)
Beryllium (mg/L)	**DGWC-10**	**0.0086**	**0.00617**	**0.004**	**Yes**	**20**	**0.007385**	**0.00214**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.003	0.00014	0.004	No	20	0.001152	0.001391	35	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00028	0.00013	0.004	No	22	0.000354	0.0006077	18.18	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.0005	0.000073	0.004	No	20	0.0004342	0.00064	55	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	21	0.0005847	0.0005645	90.48	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00064	0.00052	0.004	No	21	0.0006671	0.0002821	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001933	0.001696	0.004	No	21	0.001814	0.0002151	9.524	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.006118	0.003311	0.004	No	21	0.004714	0.002544	9.524	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	21	0.0002919	0.0004028	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00013	0.004	No	21	0.0002314	0.000294	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	21	0.00053	0.0003352	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00034	0.0002	0.004	No	20	0.000381	0.0003914	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002644	0.002165	0.004	No	21	0.002405	0.0004341	4.762	None	No	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01169**	**0.008771**	**0.004**	**Yes**	**21**	**0.01023**	**0.002642**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008593**	**0.00695**	**0.004**	**Yes**	**21**	**0.007771**	**0.001489**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.008599**	**0.006791**	**0.004**	**Yes**	**20**	**0.007695**	**0.001592**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002409	0.001282	0.004	No	20	0.001931	0.001108	5	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**DGWC-9**	**0.005672**	**0.004905**	**0.004**	**Yes**	**19**	**0.005305**	**0.0006794**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	10	0.000396	0.0001343	20	None	No	0.011	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	9	0.0004567	0.00013	88.89	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-102D	0.0008757	0.0006923	0.005	No	10	0.000784	0.0001028	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0005	0.00012	0.005	No	9	0.0003633	0.0001651	55.56	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-108D	0.0005	0.00015	0.005	No	9	0.0004256	0.0001479	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-120D	0.001143	0.000897	0.005	No	8	0.00102	0.000116	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003425	0.0002615	0.005	No	10	0.000302	0.00004541	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	10	0.000349	0.0001648	50	None	No	0.011	NP (normality)
Cadmium (mg/L)	B-66	0.0005	0.00018	0.005	No	10	0.000452	0.0001518	70	None	No	0.011	NP (NDs)
Cadmium (mg/L)	B-82	0.0007512	0.0005215	0.005	No	11	0.0006364	0.0001378	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003455	0.0002654	0.005	No	11	0.0003055	0.00004803	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.004218	0.001186	0.005	No	10	0.002702	0.001699	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001455	0.0008482	0.005	No	7	0.001151	0.0002553	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0008955	0.0007525	0.005	No	10	0.000824	0.00008017	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.00064	0.00055	0.005	No	7	0.0005929	0.0000403	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	B-98	0.0005993	0.00007784	0.005	No	7	0.0004443	0.0002234	42.86	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001052	0.0006819	0.005	No	20	0.000867	0.000326	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	20	0.0003765	0.000173	65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003085	0.0002035	0.005	No	22	0.0003918	0.000184	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	20	0.000464	0.0001125	90	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.0005	0.00013	0.005	No	21	0.00043	0.000215	76.19	Kaplan-Meier	No	0.01	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	DGWC-17	0.0003159	0.00024	0.005	No	21	0.0002843	0.00008103	9.524	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-19	0.000402	0.0003371	0.005	No	21	0.0003695	0.00005886	9.524	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00018	0.005	No	21	0.0004048	0.0002049	52.38	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-20	0.002734	0.001894	0.005	No	21	0.002314	0.0007611	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006436	0.0004355	0.005	No	21	0.0005395	0.0001886	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006128	0.0004768	0.005	No	21	0.0005448	0.0001233	9.524	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0002191	0.0001602	0.005	No	21	0.000289	0.0001992	19.05	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-4	0.0008621	0.0006639	0.005	No	20	0.000763	0.0001745	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0009646	0.0005169	0.005	No	21	0.0007776	0.0004833	9.524	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002064	0.001273	0.005	No	21	0.001668	0.0007168	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.003675	0.002463	0.005	No	21	0.003229	0.001494	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0009223	0.0005577	0.005	No	20	0.00074	0.0003211	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002273	0.001552	0.005	No	20	0.001913	0.0006348	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006208	0.0005213	0.005	No	19	0.0005711	0.00008491	10.53	None	No	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00094	0.1	No	10	0.004151	0.001792	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	9	0.0046	0.0012	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.005	0.1	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	9	0.004589	0.001233	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.0014	0.1	No	10	0.003839	0.001882	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	13	0.004691	0.001115	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.0013	0.1	No	10	0.004194	0.001706	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.0007	0.1	No	12	0.003705	0.001945	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0013	0.1	No	11	0.004309	0.001538	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	B-83	0.004143	0.002153	0.1	No	11	0.003173	0.001254	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.0014	0.1	No	10	0.003895	0.001791	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00066	0.1	No	10	0.003473	0.002031	60	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	7	0.003957	0.001781	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	DGWC-10	0.005	0.00083	0.1	No	20	0.002515	0.001984	35	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	20	0.004119	0.001807	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	22	0.004633	0.001187	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	20	0.004144	0.001756	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	21	0.004588	0.002023	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0025	0.1	No	21	0.002971	0.0007531	9.524	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.003	0.0023	0.1	No	21	0.00289	0.0009273	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.00064	0.1	No	21	0.003722	0.002071	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002036	0.001512	0.1	No	21	0.003086	0.002098	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.00096	0.1	No	21	0.003807	0.001956	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	21	0.004819	0.0008292	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	21	0.002991	0.00217	52.38	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.001	0.1	No	21	0.00363	0.002012	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	21	0.004795	0.0009383	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	21	0.004576	0.001339	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	20	0.004772	0.001017	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.0015	0.1	No	20	0.003873	0.001821	70	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.005	0.00061	0.1	No	19	0.003584	0.002052	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.06544	0.02158	0.024	No	12	0.04496	0.02689	8.333	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-101D	0.0072	0.0022	0.024	No	9	0.003356	0.001512	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	B-102D	0.01408	0.01028	0.024	No	10	0.01218	0.002132	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.1824**	**0.1194**	**0.024**	**Yes**	**10**	**0.15**	**0.03742**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.005	0.00056	0.024	No	9	0.00357	0.002146	66.67	None	No	0.002	NP (NDs)
Cobalt (mg/L)	B-107D	0.001252	0.0006766	0.024	No	9	0.0009633	0.000323	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-108D	0.12	0.00045	0.024	No	9	0.015	0.0394	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.024	No	10	0.002319	0.002311	40	None	No	0.011	NP (normality)
Cobalt (mg/L)	B-120D	0.007734	0.00152	0.024	No	8	0.004738	0.005133	0	None	ln(x)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	B-122D	0.01125	0.004425	0.024	No	5	0.00784	0.002038	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-56**	**0.06273**	**0.04507**	**0.024**	**Yes**	**10**	**0.0539**	**0.009893**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.005	0.00031	0.024	No	14	0.004329	0.001705	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.04746**	**0.03372**	**0.024**	**Yes**	**11**	**0.04059**	**0.008249**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.02021	0.007315	0.024	No	11	0.01376	0.007739	9.091	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.005	0.0004	0.024	No	12	0.003227	0.001987	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	B-82	0.004571	0.001559	0.024	No	12	0.003162	0.002193	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01671	0.01005	0.024	No	11	0.01338	0.003994	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.00828	0.001634	0.024	No	11	0.006059	0.007192	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	**B-92**	**0.08067**	**0.04561**	**0.024**	**Yes**	**7**	**0.06314**	**0.01476**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06595**	**0.04997**	**0.024**	**Yes**	**11**	**0.05591**	**0.01374**	**0**	**None**	**x^4**	**0.01**	**Param.**
Cobalt (mg/L)	B-97	0.003262	0.002881	0.024	No	7	0.003071	0.0001604	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.005	0.00063	0.024	No	9	0.004081	0.001776	66.67	None	No	0.002	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.1639**	**0.105**	**0.024**	**Yes**	**20**	**0.1345**	**0.05179**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.024	No	20	0.003603	0.004303	30	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01445	0.005184	0.024	No	22	0.01116	0.009644	9.091	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.024	No	20	0.004314	0.001676	85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0024	0.0016	0.024	No	21	0.003229	0.005068	4.762	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02487	0.01827	0.024	No	21	0.02157	0.005984	4.762	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.05344**	**0.05029**	**0.024**	**Yes**	**21**	**0.05187**	**0.002855**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.01753	0.005858	0.024	No	21	0.01336	0.01187	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.8575**	**0.5319**	**0.024**	**Yes**	**21**	**0.7459**	**0.3849**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009569	0.008454	0.024	No	21	0.008781	0.001466	9.524	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009272	0.007233	0.024	No	21	0.008252	0.001848	9.524	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00048	0.024	No	21	0.002691	0.002755	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.0019	0.0015	0.024	No	20	0.002055	0.001025	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03142	0.01223	0.024	No	21	0.02419	0.02004	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.3412**	**0.2332**	**0.024**	**Yes**	**21**	**0.2872**	**0.09783**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4647**	**0.3591**	**0.024**	**Yes**	**21**	**0.4119**	**0.09573**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.02988	0.01981	0.024	No	20	0.02556	0.01025	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	**DGWC-8**	**0.06958**	**0.02598**	**0.024**	**Yes**	**20**	**0.04778**	**0.03839**	**5**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.2139**	**0.1582**	**0.024**	**Yes**	**19**	**0.1861**	**0.04757**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-100	0.9945	0.2768	5	No	10	0.6356	0.4022	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	1.953	0.836	5	No	9	1.394	0.5783	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.289	0.5145	5	No	10	0.9015	0.4338	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**15.61**	**10.42**	**5**	**Yes**	**10**	**13.02**	**2.911**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	0.7882	0.4029	5	No	9	0.5956	0.1996	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.465	0.5665	5	No	9	1.013	0.5158	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.525	0.7772	5	No	9	1.151	0.3872	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	9.917	4.433	5	No	10	7.175	3.074	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-120D	2.908	1.387	5	No	8	2.148	0.7175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-122D**	**16.85**	**5.536**	**5**	**Yes**	**5**	**11.19**	**3.375**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-56	1.136	0.7873	5	No	10	0.9616	0.1953	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.033	1.519	5	No	12	1.776	0.3271	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	1.703	0.8541	5	No	9	1.278	0.4396	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	0.951	0.1948	5	No	9	0.5729	0.3916	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	1.644	0.7582	5	No	11	1.214	0.5738	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.8257	0.4115	5	No	10	0.6186	0.2321	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	0.8646	0.2695	5	No	11	0.5671	0.3571	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.122	0.9092	5	No	10	1.516	0.6797	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.535	1.154	5	No	7	1.844	0.5811	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.538	0.8911	5	No	10	1.214	0.3623	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	1.969	1.014	5	No	7	1.491	0.4018	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.554	0.3972	5	No	7	1.476	0.9079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.532	1.107	5	No	21	1.337	0.4054	0	None	sqrt(x)	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.157	0.6721	5	No	21	0.9143	0.4392	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.116	0.51	5	No	21	0.8751	0.6069	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.334	0.9128	5	No	21	1.123	0.3815	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	0.9838	0.6485	5	No	21	0.8161	0.3039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.278	0.602	5	No	21	1.007	0.7574	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.9395	0.5536	5	No	21	0.7466	0.3497	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	0.9266	0.5022	5	No	21	0.7144	0.3847	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.302	0.8436	5	No	21	1.073	0.4152	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.521	1.017	5	No	21	1.269	0.4576	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	0.9656	0.5509	5	No	21	0.7582	0.3758	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.189	0.69	5	No	21	0.9397	0.4527	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.384	0.8745	5	No	21	1.129	0.4618	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.627	1.219	5	No	21	1.423	0.3698	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.103	0.6857	5	No	21	0.8945	0.3786	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.593	1.713	5	No	21	2.153	0.7982	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.196	1.475	5	No	21	1.836	0.6538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.612	0.9907	5	No	21	1.301	0.5629	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8613	0.5503	5	No	21	0.7058	0.2819	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.372	0.9768	5	No	19	1.175	0.3378	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.063	4	No	10	0.0856	0.01928	60	None	No	0.011	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	9	0.07778	0.0243	22.22	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-102D	0.101	0.06961	4	No	10	0.0853	0.01759	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.4138	0.2942	4	No	10	0.354	0.06703	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07264	0.05136	4	No	9	0.062	0.01102	11.11	None	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	9	0.08956	0.02073	77.78	None	No	0.002	NP (NDs)
Fluoride (mg/L)	B-108D	0.13	0.06	4	No	9	0.09456	0.02166	66.67	None	No	0.002	NP (NDs)
Fluoride (mg/L)	B-111D	0.4764	0.3336	4	No	10	0.405	0.08003	0	None	No	0.01	Param.
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	8	0.08175	0.0216	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-122D	0.228	0.168	4	No	5	0.198	0.01789	0	None	No	0.01	Param.
Fluoride (mg/L)	B-56	0.3084	0.1652	4	No	10	0.2368	0.08025	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.2054	0.1057	4	No	12	0.1627	0.0924	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	B-63	0.45	0.12	4	No	9	0.1767	0.1057	0	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-66	0.51	0.1	4	No	9	0.1978	0.1342	0	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-77	0.1	0.069	4	No	11	0.08718	0.0145	45.45	None	No	0.006	NP (normality)
Fluoride (mg/L)	B-82	0.1223	0.06122	4	No	10	0.0994	0.0391	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-83	0.1026	0.06439	4	No	11	0.08818	0.02363	18.18	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.056	4	No	10	0.091	0.01898	80	Kaplan-Meier	No	0.011	NP (NDs)
Fluoride (mg/L)	B-92	0.3208	0.182	4	No	7	0.2514	0.05843	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.392	0.266	4	No	10	0.329	0.07062	0	None	No	0.01	Param.
Fluoride (mg/L)	B-97	0.14	0.085	4	No	7	0.1059	0.02484	0	None	No	0.008	NP (normality)
Fluoride (mg/L)	B-98	0.1786	0.09228	4	No	7	0.1354	0.03633	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.737	1.309	4	No	22	1.523	0.3985	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	21	0.08219	0.02436	61.9	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.1379	0.0638	4	No	22	0.142	0.1261	27.27	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-13	0.1454	0.07965	4	No	21	0.127	0.09155	4.762	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.059	4	No	22	0.08205	0.02569	59.09	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.07	4	No	22	0.09736	0.04026	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.1842	0.08567	4	No	22	0.1645	0.1398	13.64	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.3508	0.1646	4	No	22	0.3132	0.2805	4.545	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.1	0.06	4	No	22	0.1263	0.1371	31.82	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	1.107	0.5695	4	No	22	0.8382	0.5005	4.545	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.1	0.07	4	No	22	0.09895	0.05878	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.11	0.068	4	No	22	0.1065	0.05962	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.1671	0.08544	4	No	22	0.1505	0.1364	9.091	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.096	4	No	22	0.1223	0.1523	63.64	None	No	0.01	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	22	0.09455	0.0187	90.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	0.9779	0.5111	4	No	22	0.7445	0.4348	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	0.9582	0.5462	4	No	22	0.7855	0.4233	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.5015	0.1983	4	No	21	0.4533	0.4241	4.762	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.2423	0.0848	4	No	21	0.2233	0.2214	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.308	0.9482	4	No	20	1.128	0.3167	0	None	No	0.01	Param.
Fluoride (mg/L)	B-125D	0.1301	0.05898	4	No	5	0.0974	0.02231	20	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.00018	0.015	No	10	0.0007478	0.0004072	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	9	0.0008961	0.0003117	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.00005	0.015	No	10	0.0007146	0.0004596	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.00047	0.015	No	10	0.0008521	0.0003271	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	9	0.0008938	0.0003187	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	B-108D	0.0025	0.001	0.015	No	9	0.001167	0.0005	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000058	0.015	No	10	0.0008109	0.0003987	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	8	0.0008988	0.0002864	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-56	0.001	0.0001	0.015	No	10	0.0007411	0.0004182	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000073	0.015	No	10	0.000812	0.0003964	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00029	0.015	No	12	0.00084	0.0003999	58.33	None	No	0.01	NP (NDs)
Lead (mg/L)	B-82	0.001	0.00011	0.015	No	11	0.0007572	0.0004165	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	B-83	0.001	0.00012	0.015	No	11	0.0007523	0.0004085	63.64	None	No	0.006	NP (NDs)
Lead (mg/L)	B-88	0.0022	0.00073	0.015	No	10	0.002119	0.003504	30	None	No	0.011	NP (normality)
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	10	0.000824	0.000371	80	None	No	0.011	NP (NDs)
Lead (mg/L)	B-98	0.0014	0.001	0.015	No	7	0.001057	0.0001512	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	DGWC-10	0.005	0.00014	0.015	No	20	0.003539	0.00229	70	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00015	0.015	No	20	0.000775	0.0004003	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	22	0.0009186	0.0002634	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	20	0.0009149	0.0002625	90	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	21	0.0008678	0.000332	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.001	0.0002	0.015	No	21	0.0007972	0.0003978	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00013	0.015	No	21	0.0007044	0.0004288	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00026	0.015	No	21	0.000809	0.0004075	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000094	0.015	No	21	0.000654	0.0004522	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.01	0.00047	0.015	No	21	0.006841	0.004588	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.0002	0.015	No	21	0.0007984	0.0005555	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	21	0.0009555	0.0002038	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	20	0.0008235	0.0003631	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0003784	0.0001799	0.015	No	21	0.0007514	0.001057	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0005	0.015	No	21	0.0009562	0.0009668	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.001581	0.0008734	0.015	No	21	0.001283	0.0007399	14.29	None	sqrt(x)	0.01	Param.
Lead (mg/L)	DGWC-5	0.001	0.00008	0.015	No	20	0.0006804	0.0005973	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00027	0.015	No	20	0.0007391	0.0003841	65	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	19	0.004242	0.001798	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.03	0.0019	0.04	No	10	0.00772	0.01175	20	None	No	0.011	NP (normality)
Lithium (mg/L)	B-101D	0.015	0.008	0.04	No	9	0.01242	0.002675	0	None	No	0.002	NP (normality)
Lithium (mg/L)	B-102D	0.0136	0.01022	0.04	No	10	0.01191	0.001895	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03934	0.03586	0.04	No	10	0.0376	0.001955	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005532	0.004846	0.04	No	9	0.005189	0.0003551	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01573	0.01271	0.04	No	9	0.01422	0.001563	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01553	0.01358	0.04	No	9	0.01456	0.001014	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.02582	0.01878	0.04	No	10	0.0223	0.003945	0	None	No	0.01	Param.
Lithium (mg/L)	**B-120D**	**0.08374**	**0.05151**	**0.04**	**Yes**	**8**	**0.06763**	**0.0152**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-122D	0.014	0.013	0.04	No	5	0.0132	0.0004472	0	None	No	0.031	NP (normality)
Lithium (mg/L)	B-56	0.005881	0.005239	0.04	No	10	0.00556	0.0003596	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0082	0.04	No	13	0.009969	0.004551	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	B-63	0.0072	0.005	0.04	No	11	0.007782	0.00577	9.091	None	No	0.006	NP (normality)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-66	0.03	0.03	0.04	No	10	0.02707	0.009256	90	None	No	0.011	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.0011	0.04	No	12	0.01619	0.01446	50	None	No	0.01	NP (normality)
Lithium (mg/L)	B-82	0.03	0.00078	0.04	No	11	0.009403	0.01327	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	B-83	0.002989	0.00196	0.04	No	11	0.0025	0.0007483	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-88	0.01291	0.001861	0.04	No	10	0.00755	0.008268	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01554	0.01089	0.04	No	7	0.01321	0.001955	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.01257	0.01033	0.04	No	10	0.01145	0.001257	0	None	No	0.01	Param.
Lithium (mg/L)	B-97	0.005076	0.004324	0.04	No	7	0.0047	0.0003162	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.015	0.00089	0.04	No	7	0.003223	0.005209	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	DGWC-10	0.0053	0.0033	0.04	No	20	0.00624	0.006534	10	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0024	0.0019	0.04	No	20	0.003315	0.005117	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	22	0.02209	0.01321	72.73	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.003	0.04	No	20	0.005435	0.006699	10	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0035	0.04	No	21	0.005738	0.005448	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0063	0.0052	0.04	No	20	0.005975	0.0008441	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	21	0.02174	0.01339	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.0026	0.04	No	21	0.0041	0.004802	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0781	0.021	0.04	No	21	0.04085	0.02869	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.01207	0.004954	0.04	No	21	0.00851	0.006446	4.762	None	No	0.01	Param.
Lithium (mg/L)	DGWC-21	0.0063	0.0056	0.04	No	21	0.006876	0.004172	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0044	0.0035	0.04	No	21	0.004895	0.004631	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.009392	0.003569	0.04	No	21	0.0098	0.01613	4.762	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0037	0.0027	0.04	No	20	0.00427	0.004907	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01226	0.008965	0.04	No	21	0.01094	0.0038	4.762	None	ln(x)	0.01	Param.
Lithium (mg/L)	**DGWC-47**	**0.06839**	**0.05259**	**0.04**	**Yes**	**21**	**0.06049**	**0.01431**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1196**	**0.1008**	**0.04**	**Yes**	**21**	**0.1102**	**0.0171**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.0079	0.0055	0.04	No	20	0.007185	0.004531	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0059	0.0036	0.04	No	20	0.00582	0.004687	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02839	0.0246	0.04	No	19	0.02649	0.003234	5.263	None	No	0.01	Param.
Lithium (mg/L)	B-125D	0.078	0.028	0.04	No	6	0.04567	0.02362	0	None	No	0.0155	NP (normality)
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	9	0.00019	0.00003	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	9	0.0002033	0.00003808	77.78	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.0002	0.002	No	10	0.0001879	0.00003826	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	9	0.0001956	0.00001333	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	9	0.0001933	0.00002	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.0002	0.002	No	10	0.0001894	0.00003352	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-56	0.00029	0.0002	0.002	No	10	0.000219	0.00005343	70	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-66	0.0002	0.0002	0.002	No	10	0.000209	0.00002846	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.0002	0.002	No	11	0.0001918	0.00002714	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.00011	0.002	No	10	0.000181	0.00004012	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-92	0.0002	0.00015	0.002	No	7	0.0001771	0.00002289	42.86	None	No	0.008	NP (normality)
Mercury (mg/L)	B-93	0.0002031	0.0001121	0.002	No	10	0.0001838	0.00004942	40	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0021	0.00009	0.002	No	20	0.000271	0.0004333	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.00048	0.00008	0.002	No	20	0.0001935	0.000084	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00014	0.002	No	22	0.0001666	0.00005843	72.73	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	20	0.000188	0.00003708	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	21	0.0001805	0.00004924	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	21	0.0001933	0.00003055	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000086	0.002	No	21	0.0001546	0.00005924	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	21	0.0001767	0.0000518	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	21	0.0002035	0.0001092	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	21	0.0001833	0.00004187	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00012	0.002	No	21	0.00017	0.00005639	76.19	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00014	0.002	No	21	0.000174	0.00005054	76.19	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00015	0.002	No	21	0.0001895	0.00004842	47.62	None	No	0.01	NP (normality)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	20	0.0002051	0.00009873	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	21	0.0001924	0.00003491	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	21	0.0001933	0.00003055	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002482	0.0001389	0.002	No	20	0.0002012	0.0001079	10	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.0001	0.002	No	20	0.000161	0.00005725	65	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00014	0.002	No	19	0.0001859	0.00007806	42.11	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-100	0.01	0.01	0.1	No	10	0.028	0.05692	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	9	0.009133	0.0026	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.01	0.1	No	10	0.00915	0.002688	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00092	0.1	No	10	0.007295	0.004356	70	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-108D	0.01	0.00078	0.1	No	9	0.008976	0.003073	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-111D	0.009687	0.005413	0.1	No	10	0.00755	0.002395	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	8	0.008861	0.003221	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-122D	0.01	0.001	0.1	No	5	0.00304	0.003912	20	None	No	0.031	NP (normality)
Molybdenum (mg/L)	B-66	0.01	0.0018	0.1	No	10	0.00833	0.003521	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-82	0.01	0.01	0.1	No	11	0.009165	0.002771	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	10	0.00824	0.00371	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-98	0.01	0.00075	0.1	No	7	0.003634	0.004357	28.57	None	No	0.008	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02028	0.01069	0.1	No	20	0.01623	0.009354	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	21	0.004271	0.003733	28.57	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-22	0.01	0.00097	0.1	No	21	0.00957	0.001971	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DGWC-23	0.0103	0.007231	0.1	No	21	0.008767	0.002784	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.005875	0.004105	0.1	No	20	0.00499	0.001559	5	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.005	0.05	No	10	0.00469	0.0009803	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	9	0.004789	0.0006333	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	10	0.00346	0.001683	50	None	No	0.011	NP (normality)
Selenium (mg/L)	B-108D	0.025	0.0016	0.05	No	9	0.006844	0.006901	77.78	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.005	0.05	No	10	0.00472	0.0008854	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	B-120D	0.005362	0.002088	0.05	No	8	0.003725	0.001544	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.01832	0.008001	0.05	No	10	0.01323	0.006582	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	12	0.004725	0.0009526	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0017	0.05	No	11	0.003136	0.001516	36.36	None	No	0.006	NP (normality)
Selenium (mg/L)	B-83	0.02415	0.01443	0.05	No	11	0.01929	0.005828	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.00322	0.00192	0.05	No	10	0.00257	0.0007288	10	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01495	0.002252	0.05	No	7	0.0086	0.005344	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.01891	0.004679	0.05	No	10	0.01195	0.00955	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-97	0.003615	0.00187	0.05	No	7	0.002743	0.0007345	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	7	0.004757	0.0006425	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	DGWC-10	0.05329	0.0209	0.05	No	20	0.04072	0.03615	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	22	0.004223	0.001977	68.18	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.006238	0.003062	0.05	No	20	0.00465	0.002796	15	None	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	21	0.003633	0.002233	52.38	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	21	0.004895	0.001597	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008507	0.006465	0.05	No	21	0.00759	0.002099	9.524	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.007624	0.005004	0.05	No	21	0.006314	0.002375	9.524	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0031	0.05	No	21	0.004386	0.001982	38.1	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.0752	0.04205	0.05	No	21	0.05863	0.03005	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	21	0.004843	0.0007201	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	20	0.00482	0.000805	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.008962	0.003433	0.05	No	21	0.00689	0.005778	9.524	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.005661	0.002401	0.05	No	21	0.005129	0.003095	23.81	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.02964	0.00704	0.05	No	20	0.02467	0.03716	5	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	20	0.00452	0.001946	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1041	0.04439	0.05	No	19	0.07977	0.0564	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-104D	0.001	0.001	0.002	No	10	0.000928	0.0002277	90	None	No	0.011	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/10/2024, 3:57 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Thallium (mg/L)	B-56	0.001	0.00021	0.002	No	10	0.000394	0.0003221	20	None	No	0.011	NP (normality)
Thallium (mg/L)	B-66	0.001	0.001	0.002	No	10	0.000921	0.0002498	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-82	0.001	0.00011	0.002	No	11	0.0008372	0.0003623	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.001	0.002	No	11	0.0009156	0.0002798	90.91	None	No	0.006	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.001	0.002	No	10	0.00092	0.000253	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	7	0.0007729	0.0003879	71.43	None	No	0.008	NP (NDs)
Thallium (mg/L)	DGWC-10	0.005	0.00037	0.002	No	20	0.00181	0.002148	35	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000097	0.002	No	22	0.0006762	0.0004391	63.64	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-14	0.001	0.00056	0.002	No	21	0.000979	0.00009602	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00018	0.002	No	21	0.00057	0.0004204	47.62	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0005552	0.0004944	0.002	No	21	0.0005248	0.0000551	4.762	None	No	0.01	Param.
Thallium (mg/L)	DGWC-20	0.01	0.0006	0.002	No	21	0.003997	0.004374	38.1	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	21	0.0007778	0.0004073	76.19	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	20	0.0009537	0.0002073	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	21	0.0007914	0.0003844	76.19	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.0003328	0.0002281	0.002	No	21	0.0002924	0.0001102	14.29	None	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	21	0.0007812	0.000401	76.19	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	20	0.000867	0.0003258	85	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No	20	0.0005315	0.000395	40	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	19	0.00266	0.002283	47.37	None	No	0.01	NP (normality)

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Non-Parametric Confidence Interval

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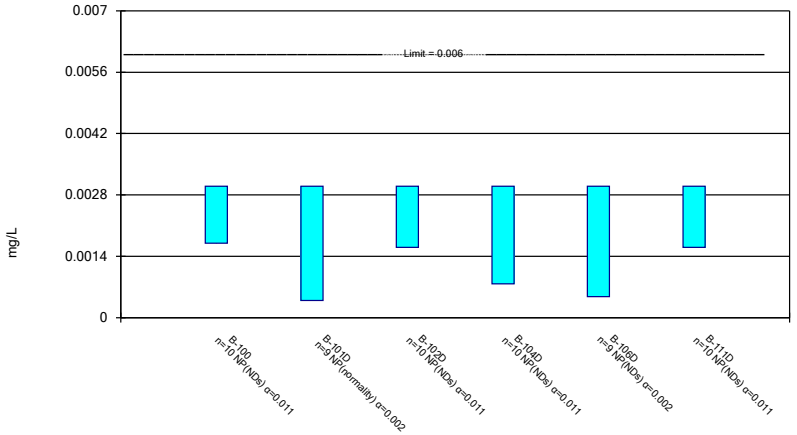

Constituent: Antimony Analysis Run 12/10/2024 3:49 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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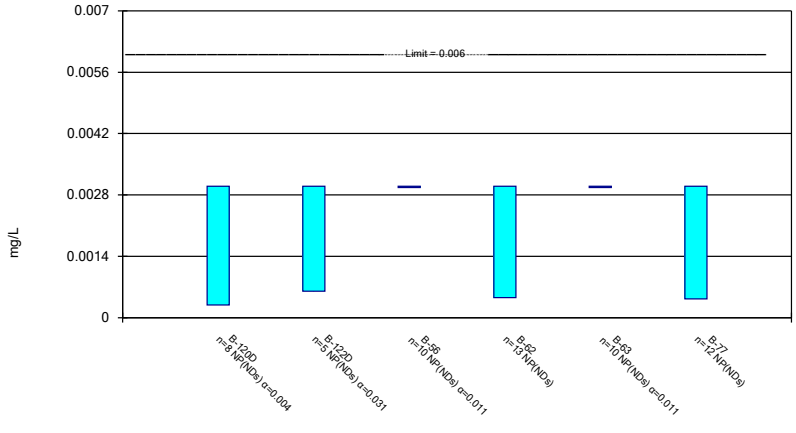
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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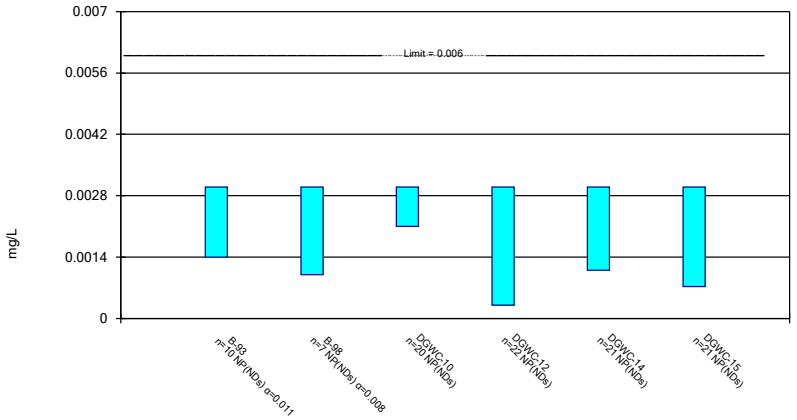
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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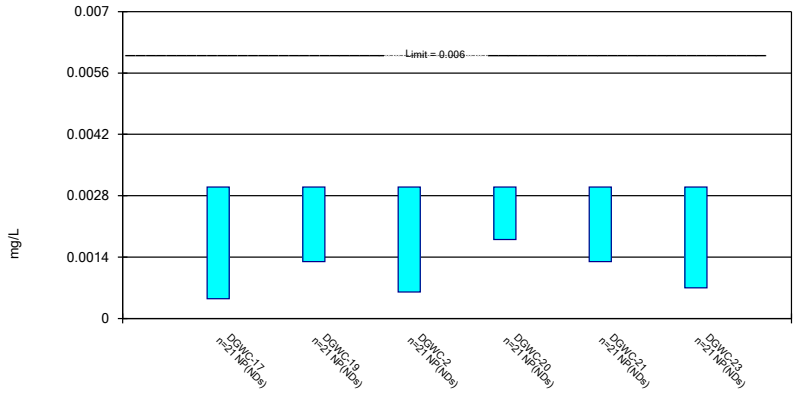
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



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Plant McDonough Client: Southern Company Data: McDonough AP

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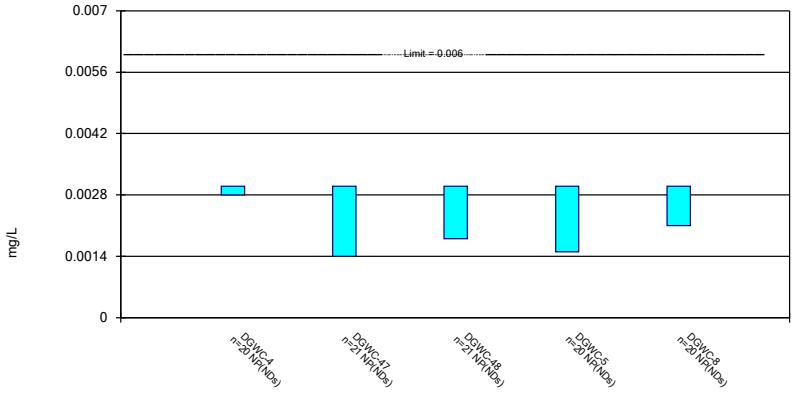
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 12/10/2024 3:49 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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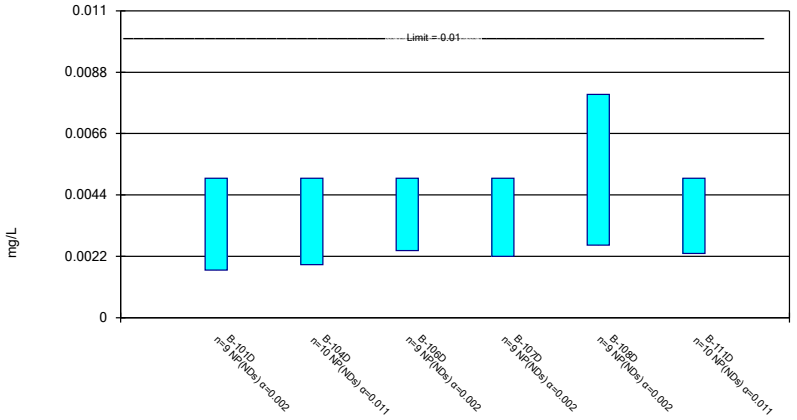
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



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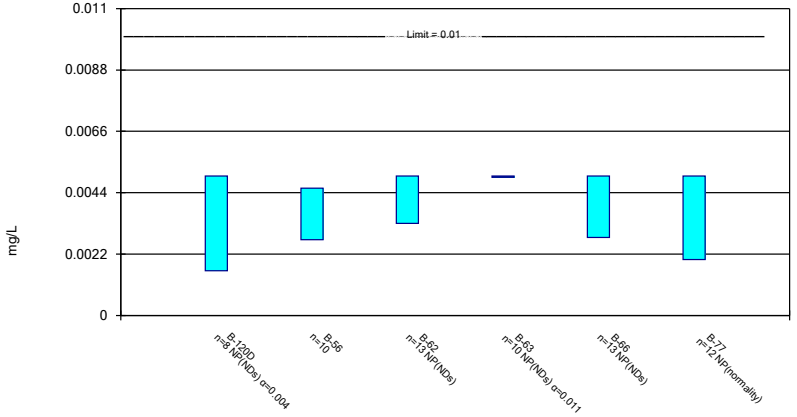
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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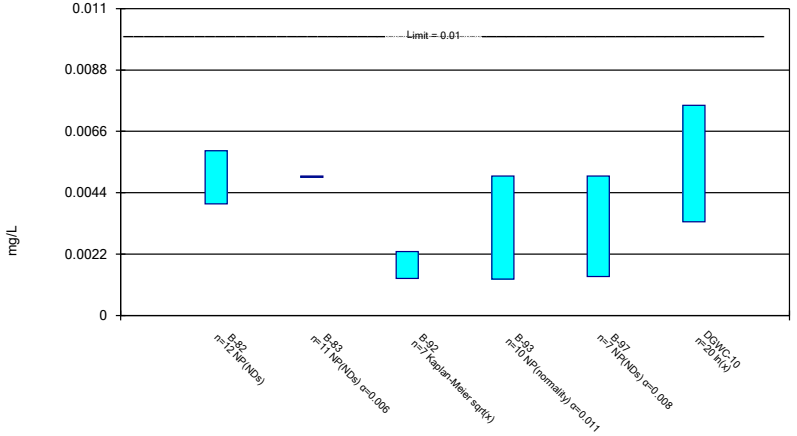

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Plant McDonough Client: Southern Company Data: McDonough AP

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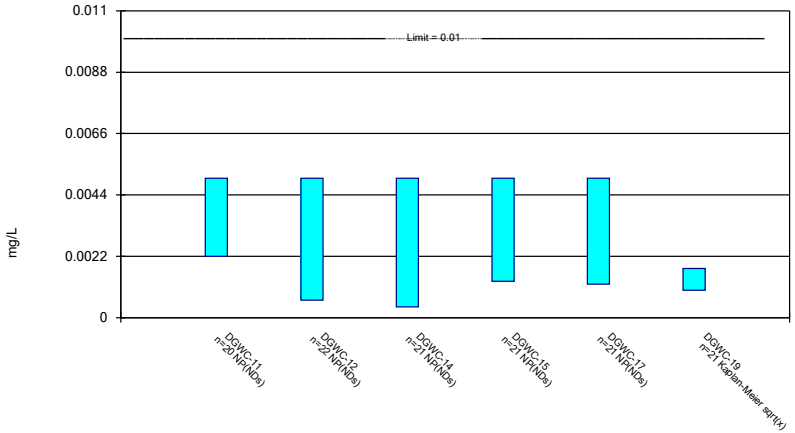
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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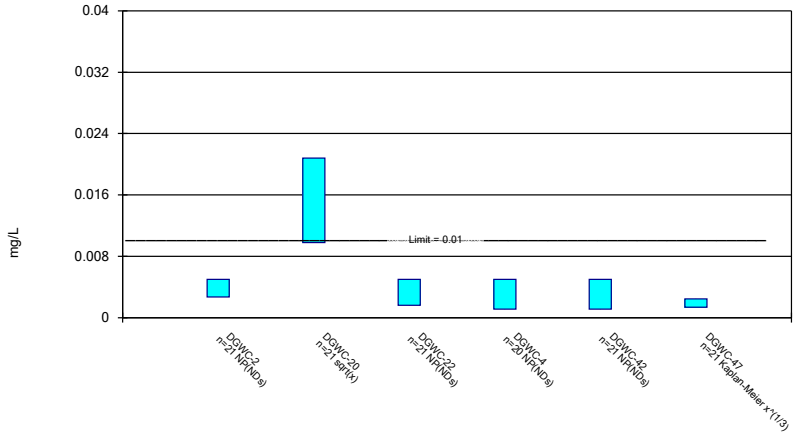
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.



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Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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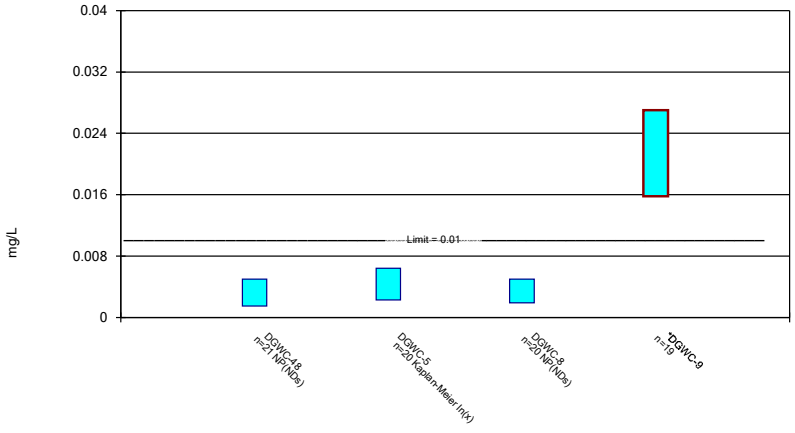

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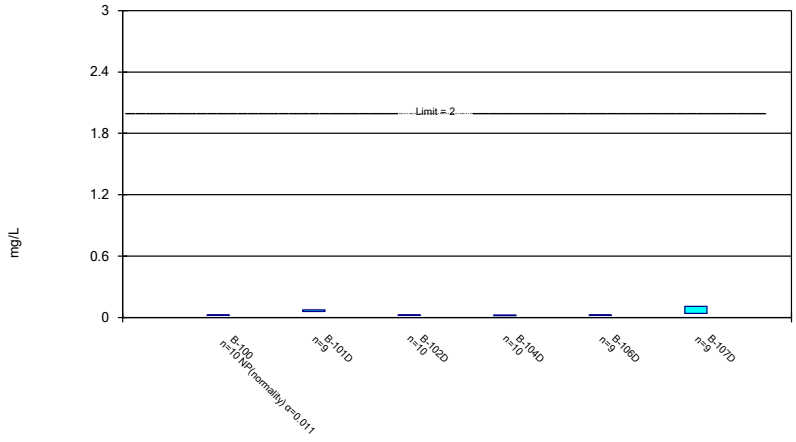
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

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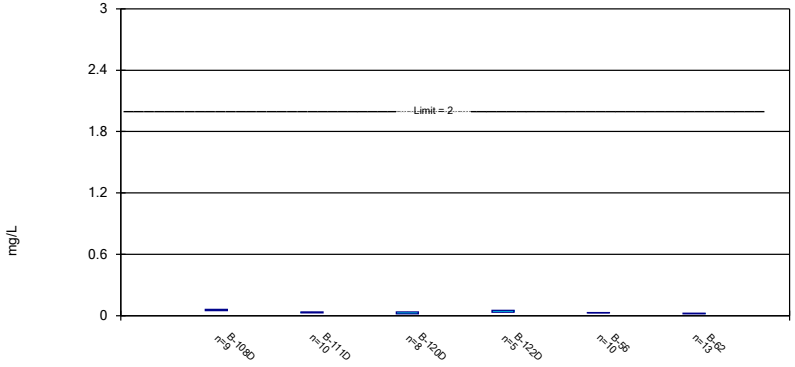

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Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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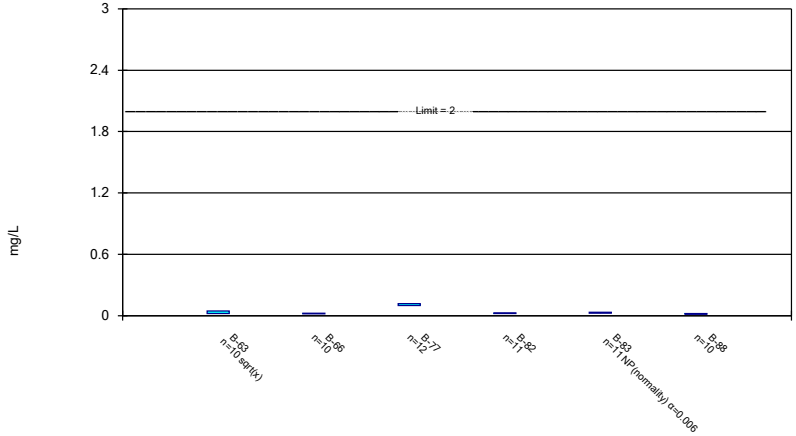

Constituent: Barium Analysis Run 12/10/2024 3:49 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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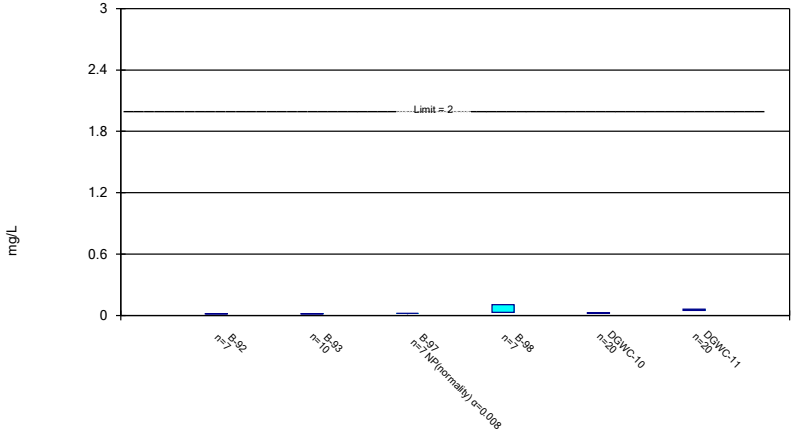

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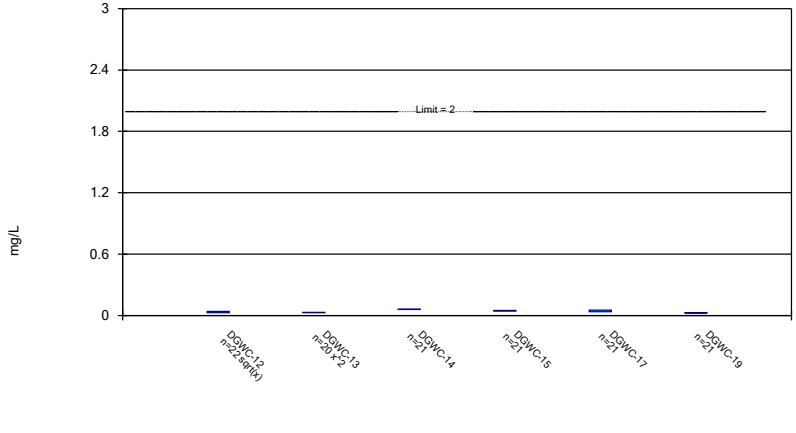

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Plant McDonough Client: Southern Company Data: McDonough AP

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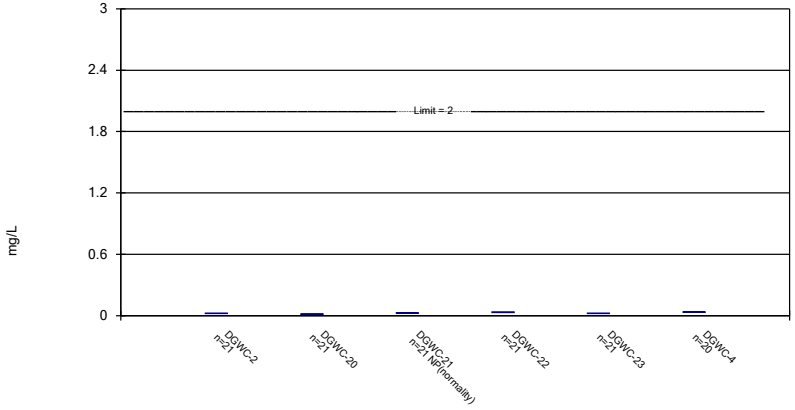

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Plant McDonough Client: Southern Company Data: McDonough AP

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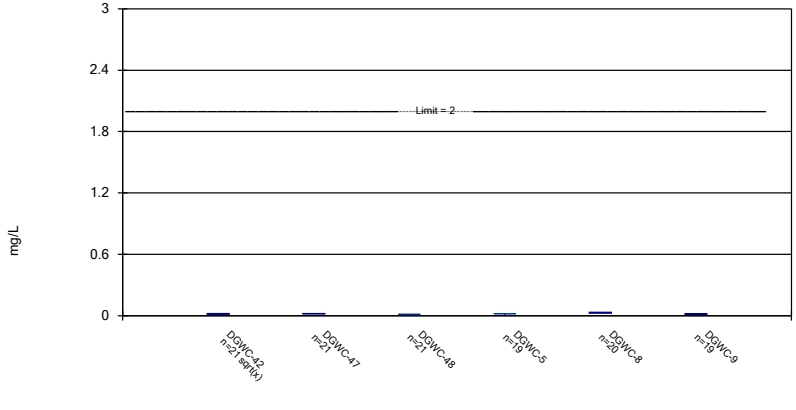

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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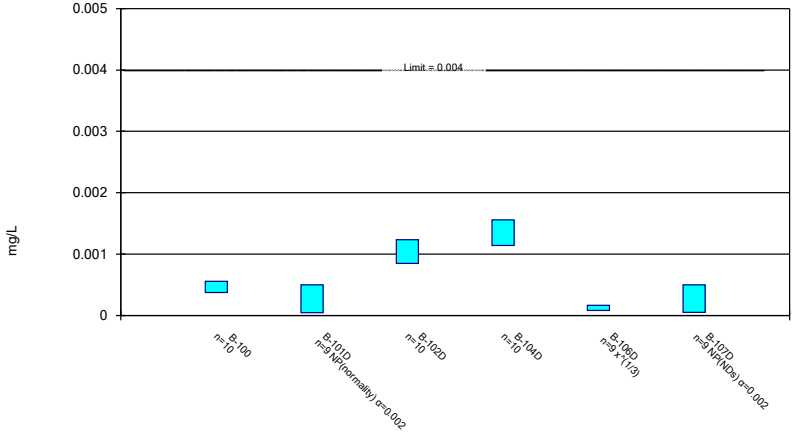

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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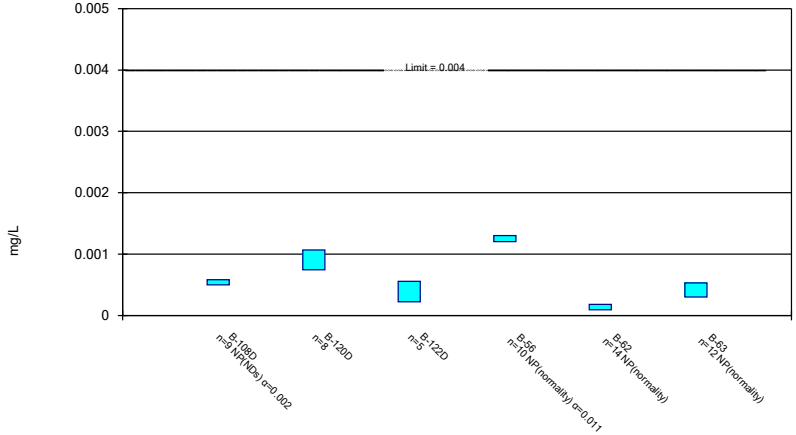

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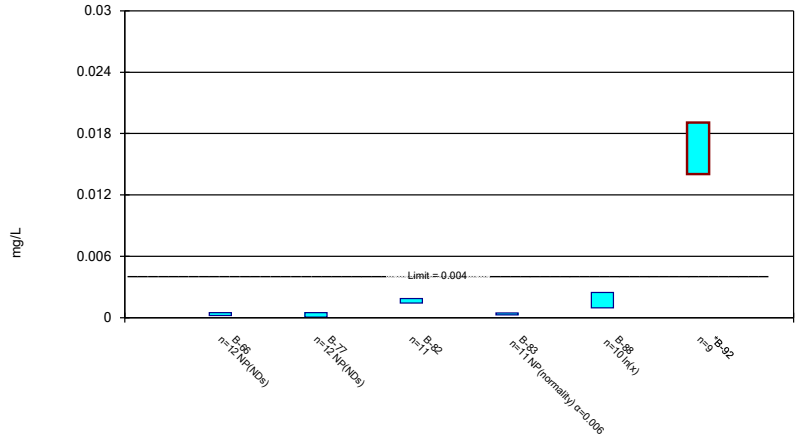
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.



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Plant McDonough Client: Southern Company Data: McDonough AP

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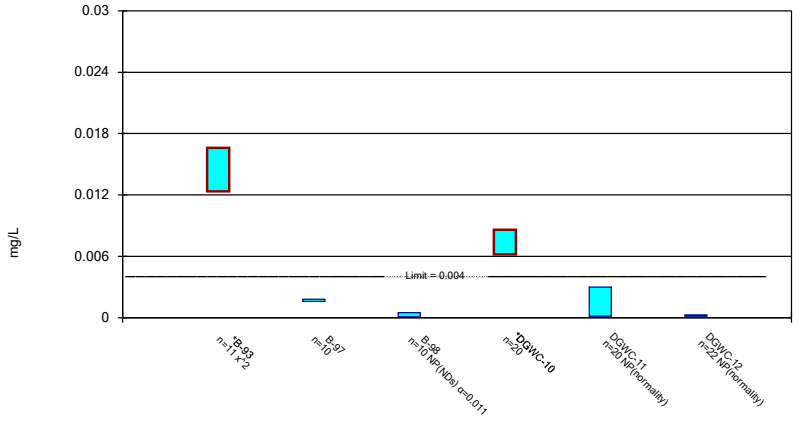

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Plant McDonough Client: Southern Company Data: McDonough AP

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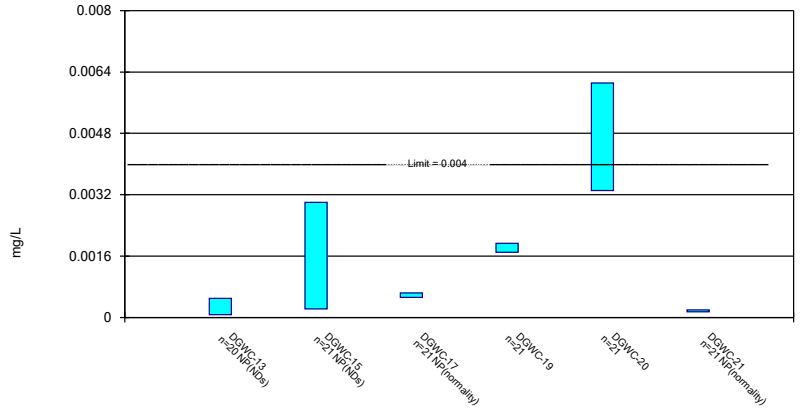
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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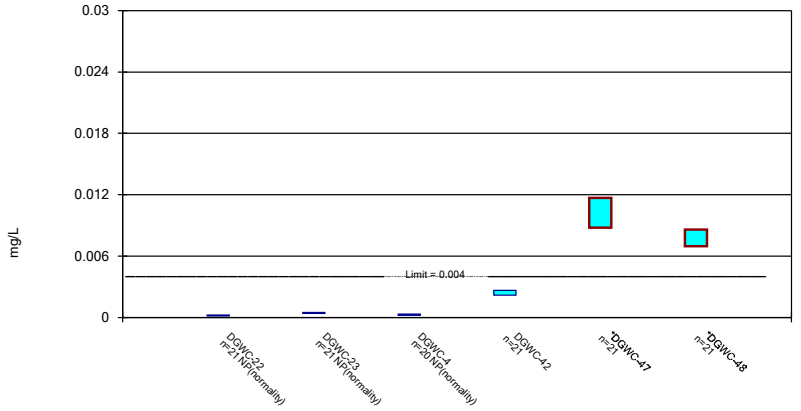
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

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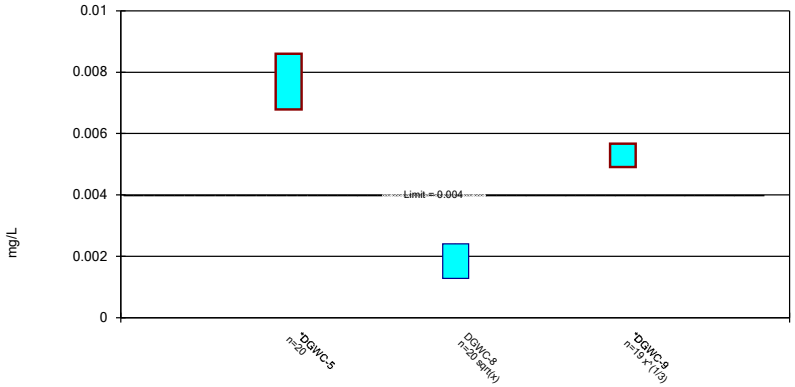

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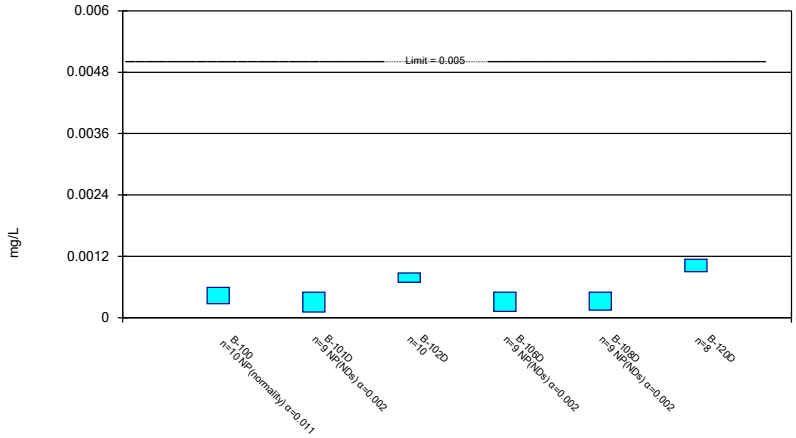
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

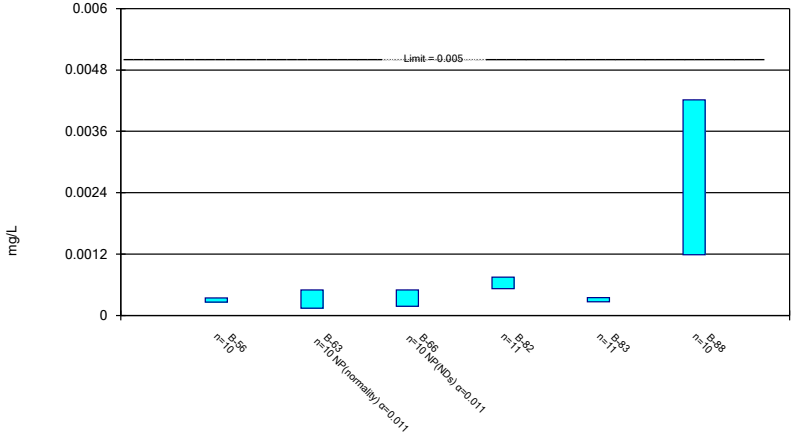


Constituent: Cadmium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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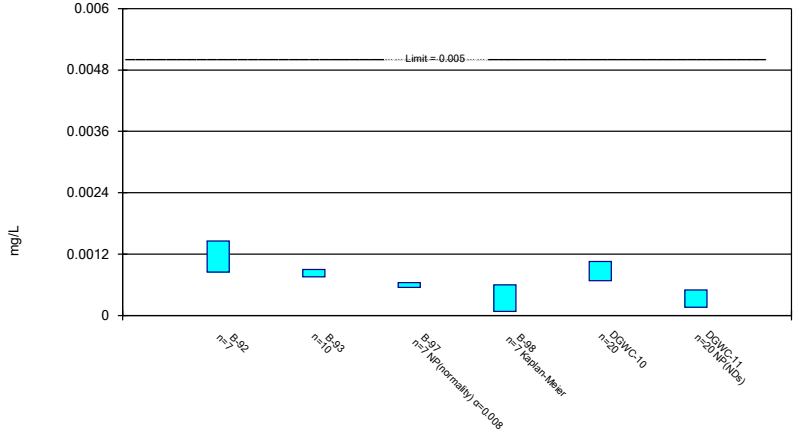

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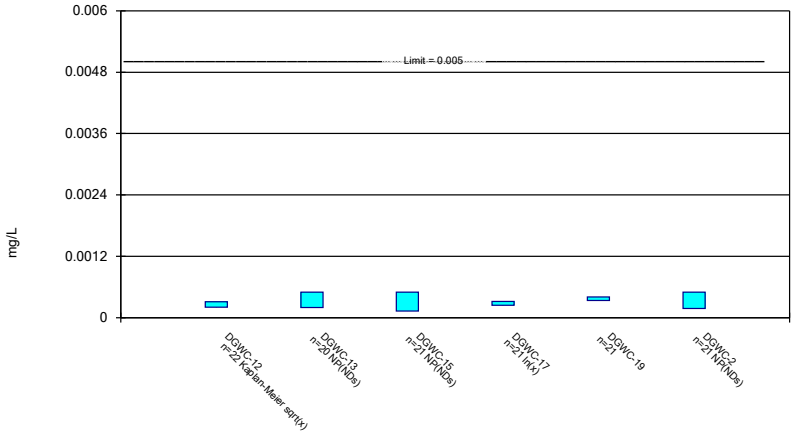

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Plant McDonough Client: Southern Company Data: McDonough AP

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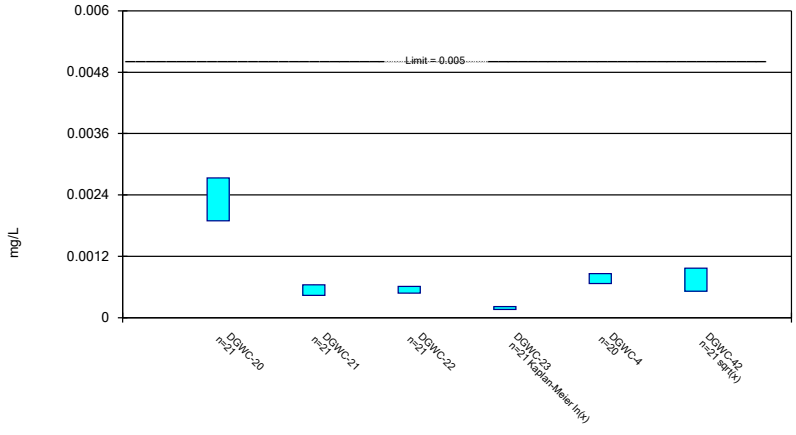

Constituent: Cadmium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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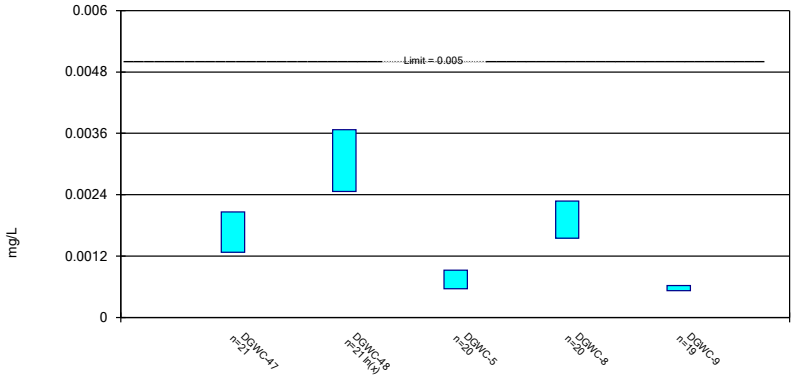
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

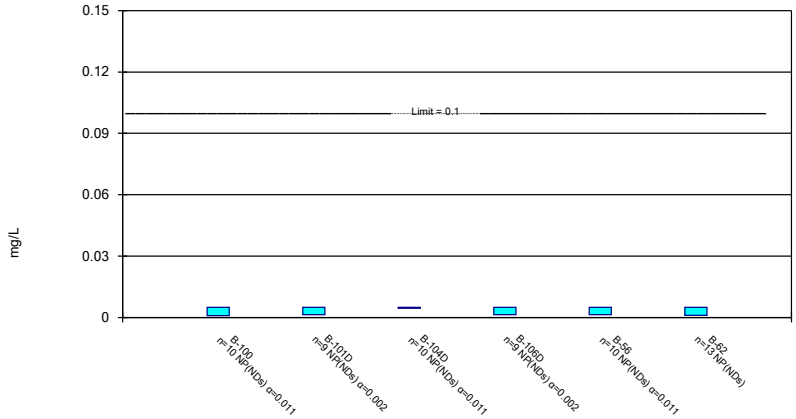


Constituent: Cadmium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

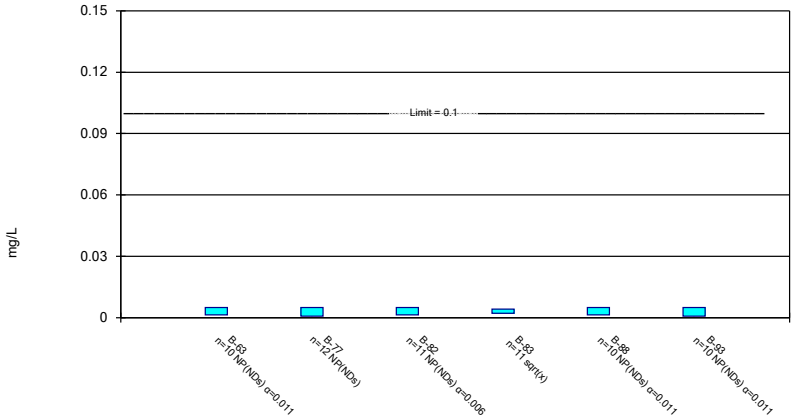


Constituent: Chromium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.



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Plant McDonough Client: Southern Company Data: McDonough AP

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Non-Parametric Confidence Interval

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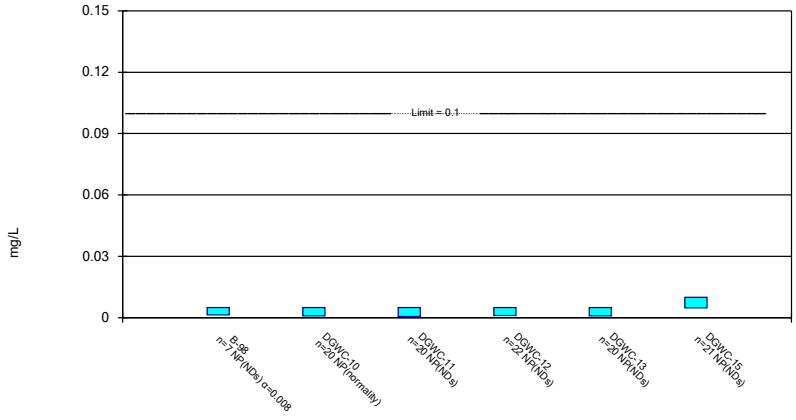

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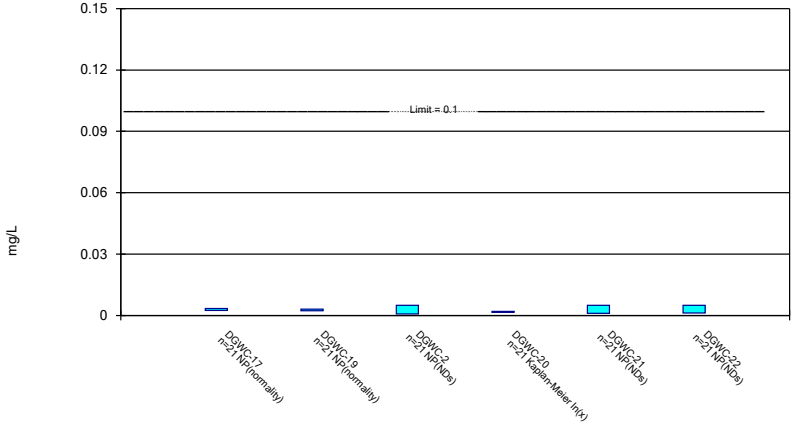

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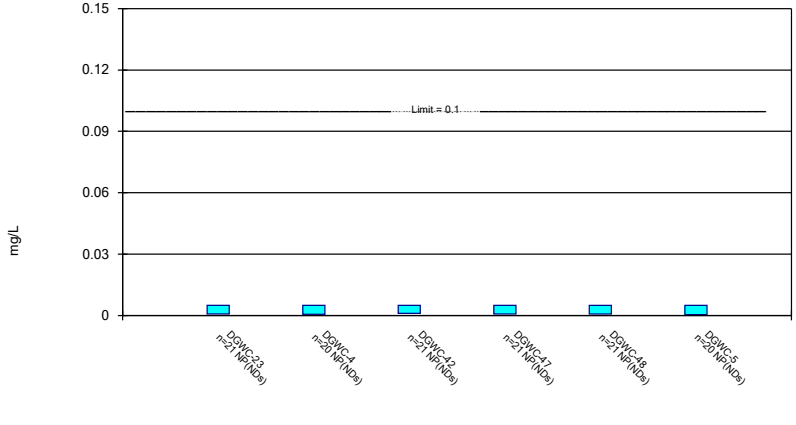

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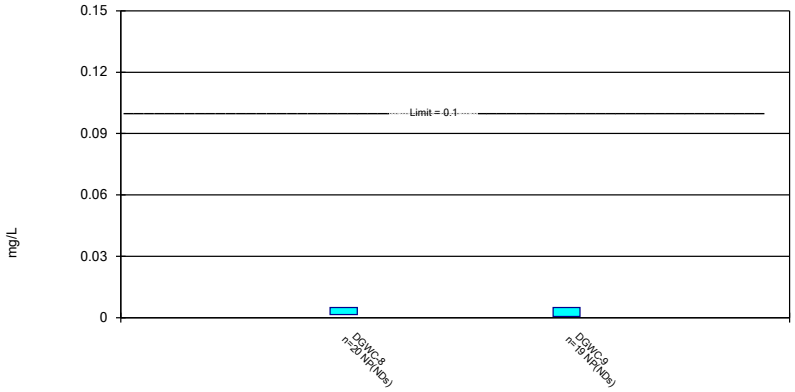
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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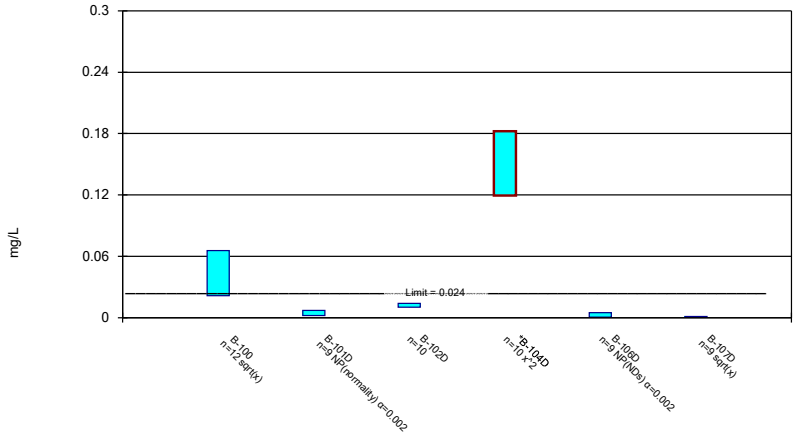
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

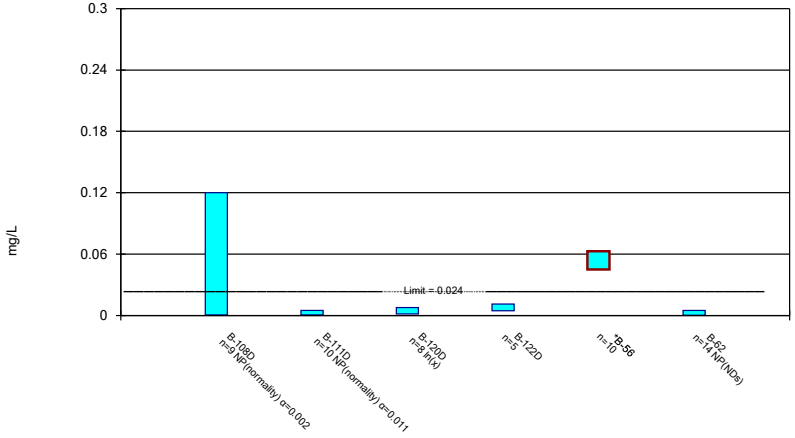


Constituent: Cobalt Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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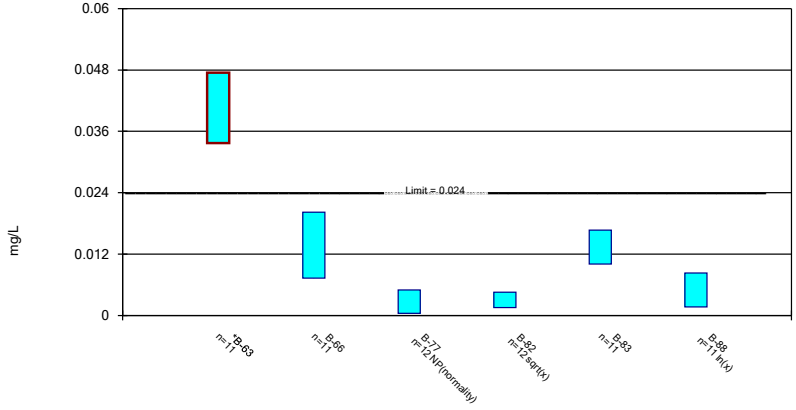

Constituent: Cobalt Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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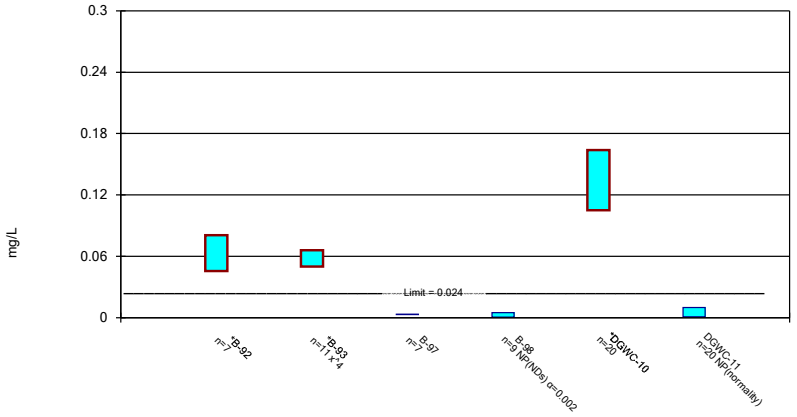
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

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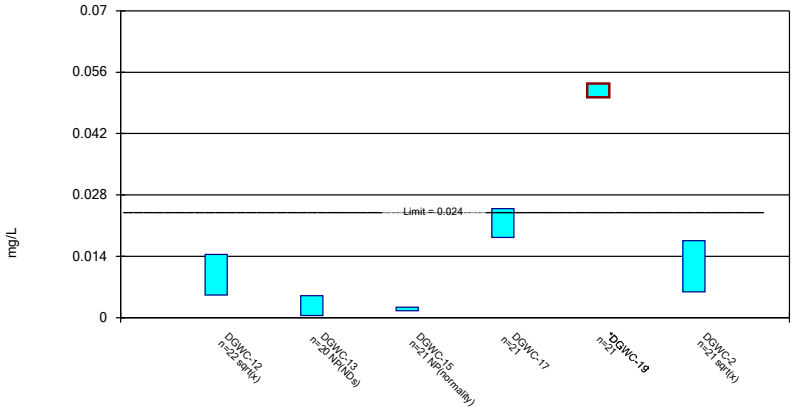
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

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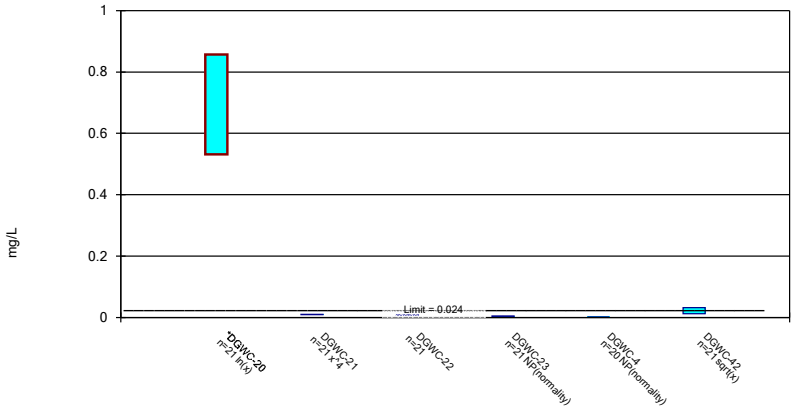
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

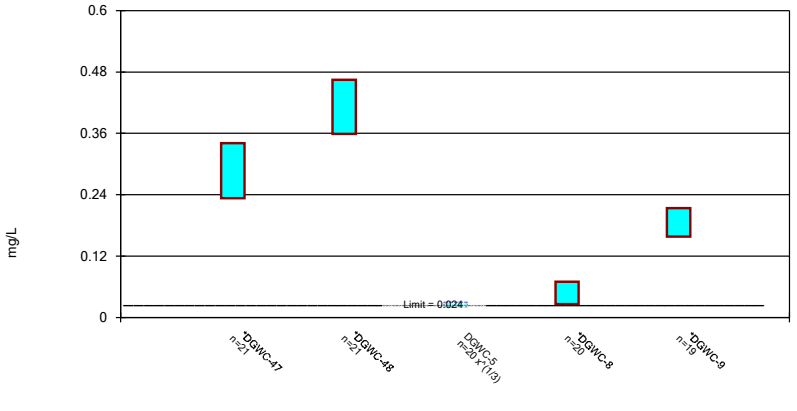


Constituent: Cobalt Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

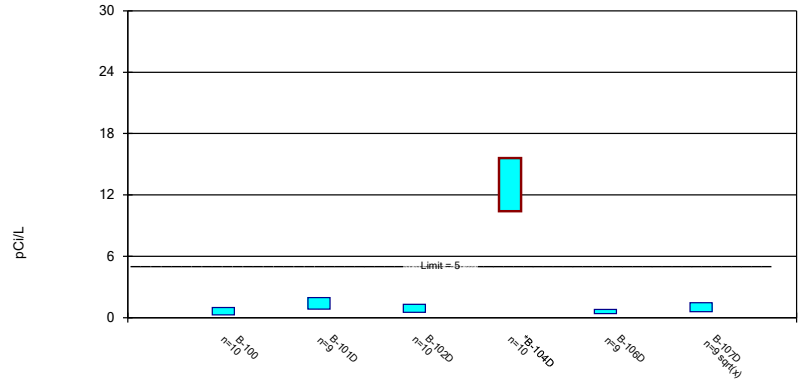


Constituent: Cobalt Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

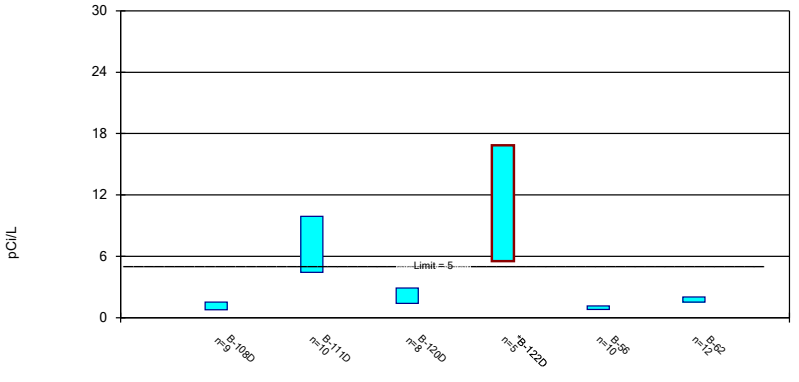


Constituent: Combined Radium 226 + 228 Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

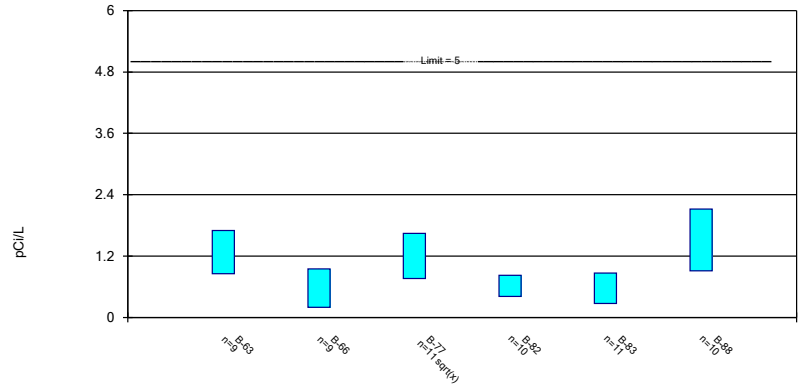


Constituent: Combined Radium 226 + 228 Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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 12/10/2024 3:50 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

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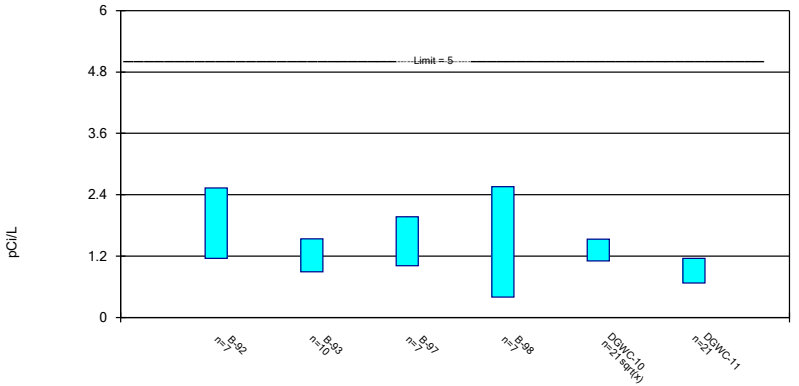

Constituent: Combined Radium 226 + 228 Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

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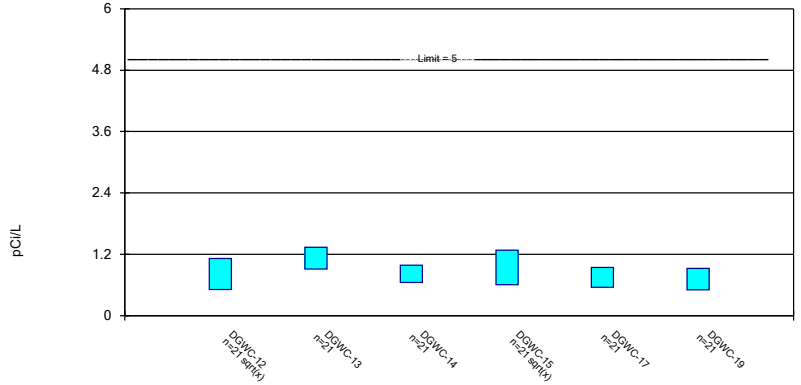

Constituent: Combined Radium 226 + 228 Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

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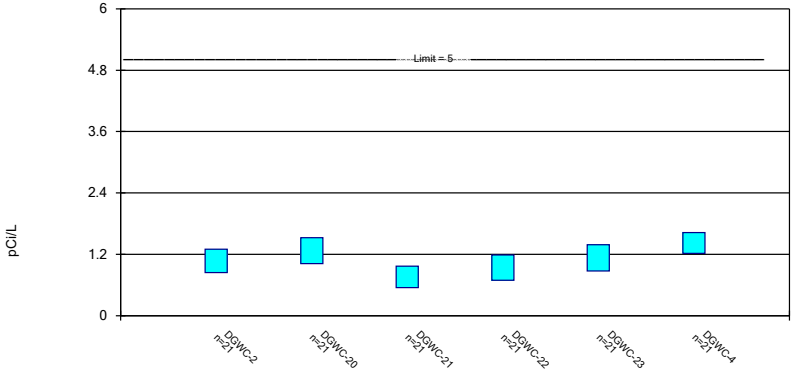

Constituent: Combined Radium 226 + 228 Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

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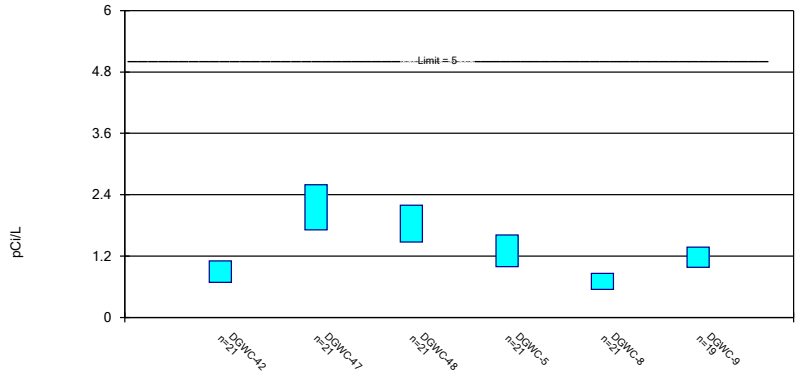

Constituent: Combined Radium 226 + 228 Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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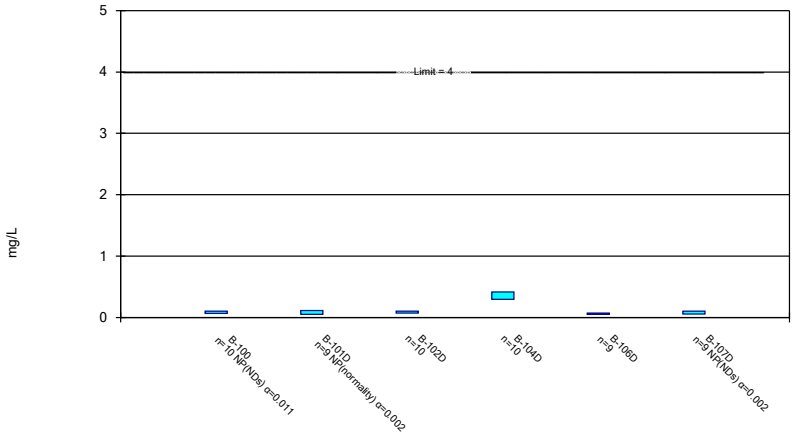

Constituent: Fluoride Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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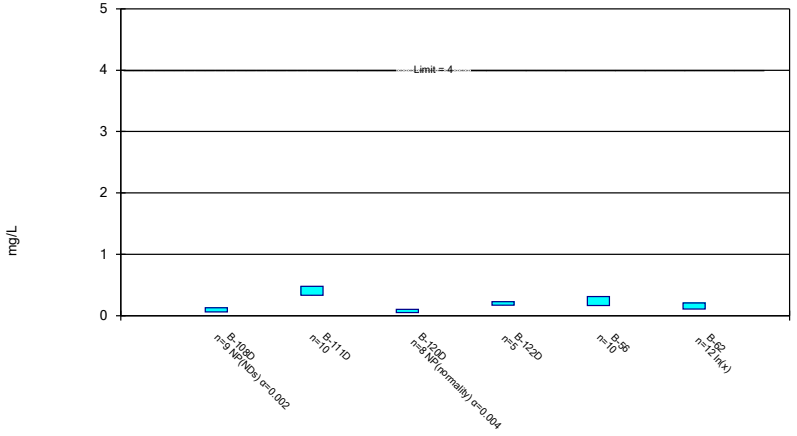

Constituent: Fluoride Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
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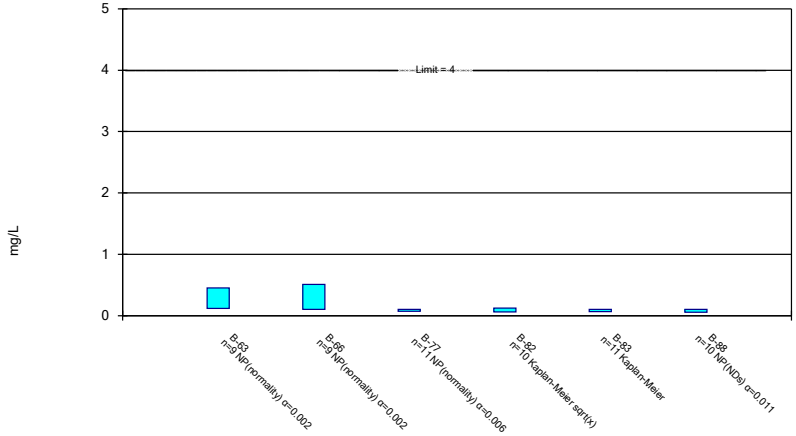

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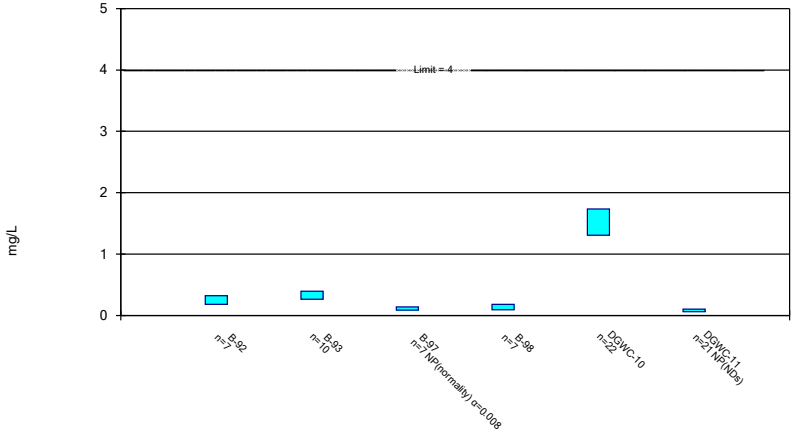

Constituent: Fluoride Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
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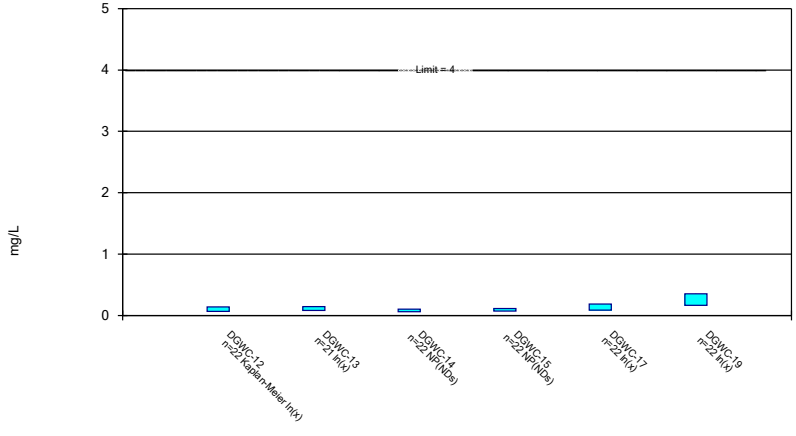

Constituent: Fluoride Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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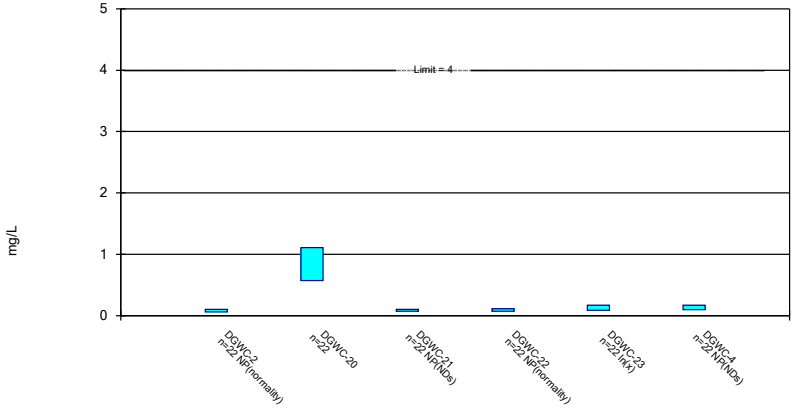

Constituent: Fluoride Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
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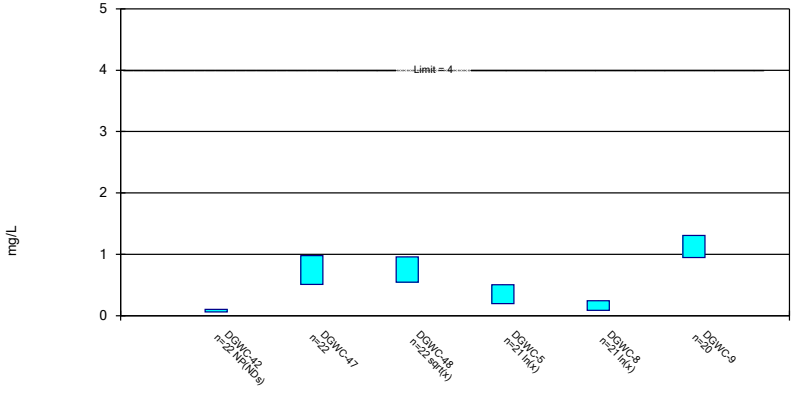

Constituent: Fluoride Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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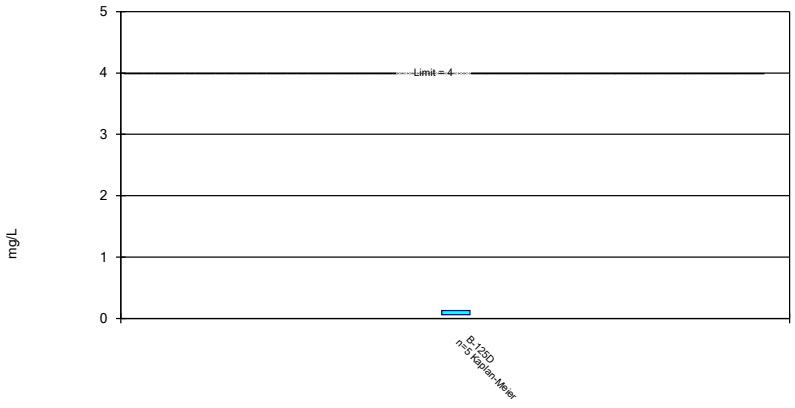
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

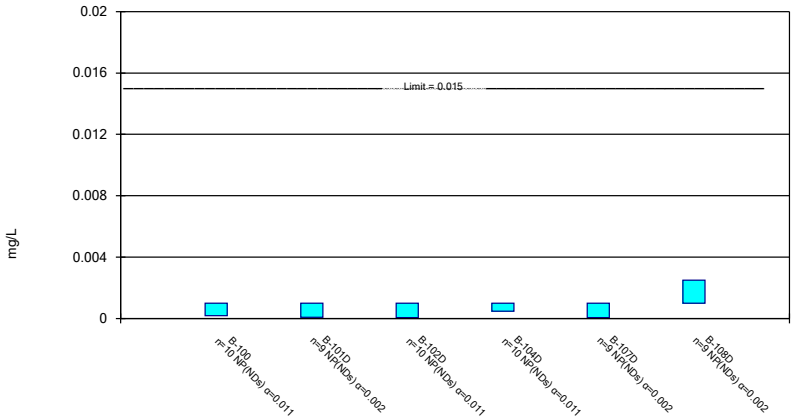


Constituent: Fluoride Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

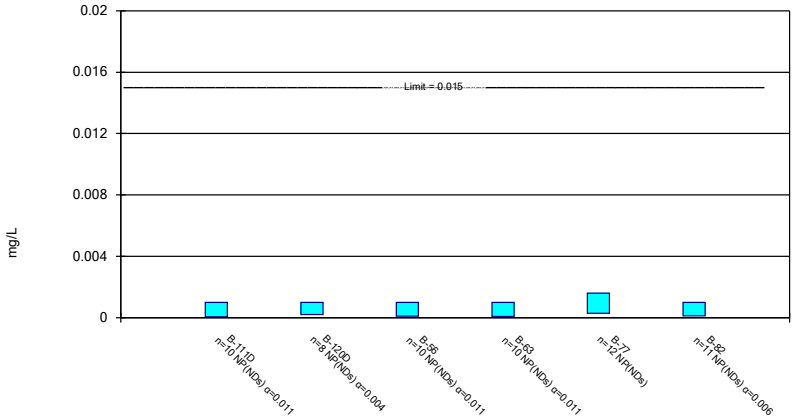


Constituent: Lead Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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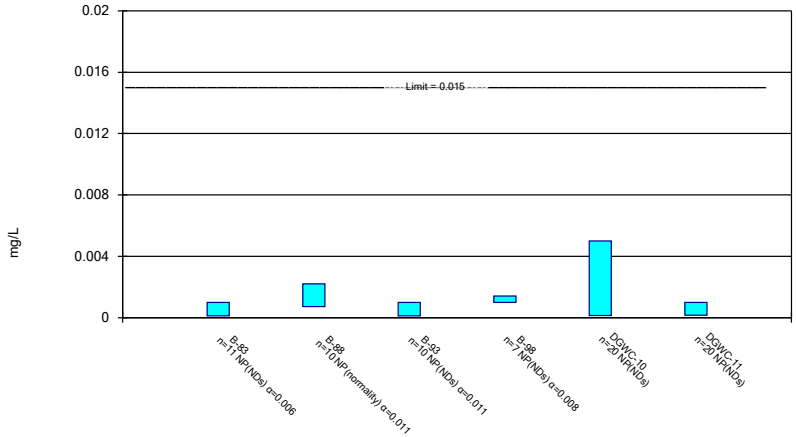

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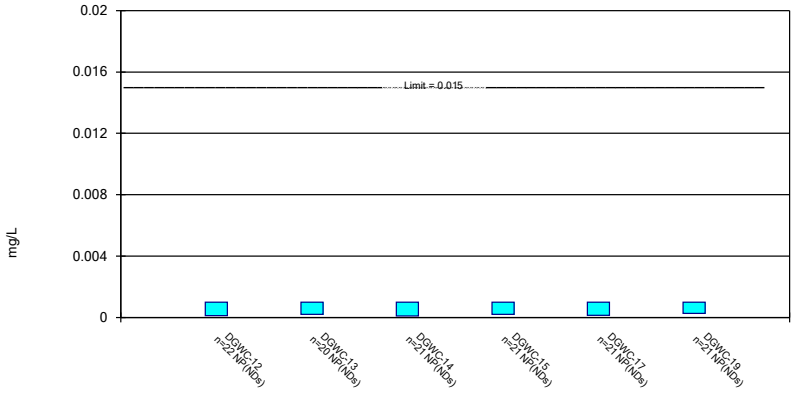

Constituent: Lead Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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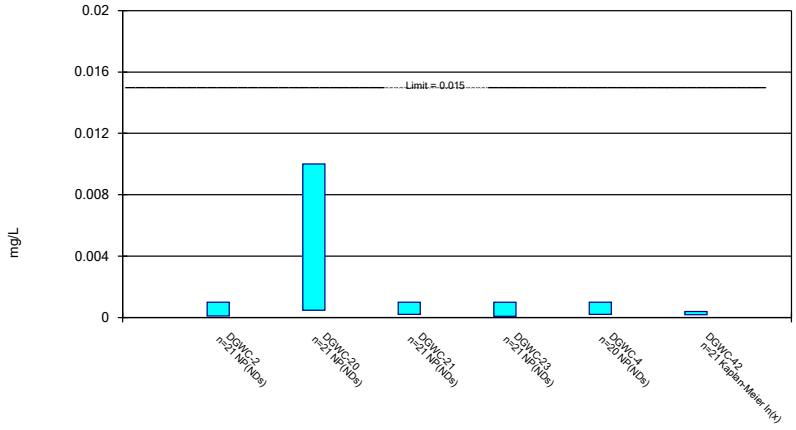

Constituent: Lead Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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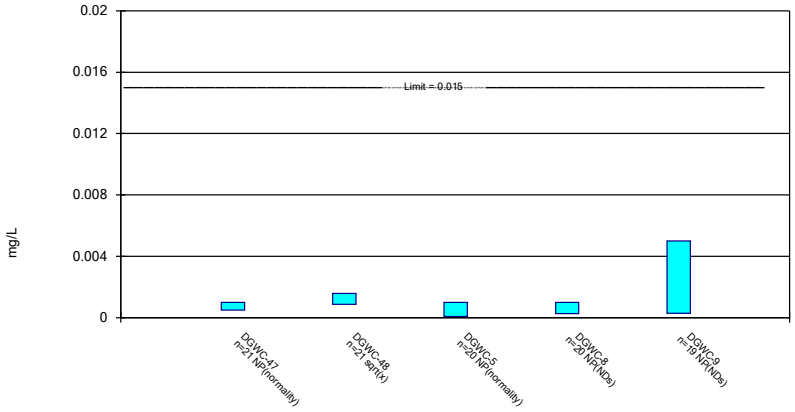

Constituent: Lead Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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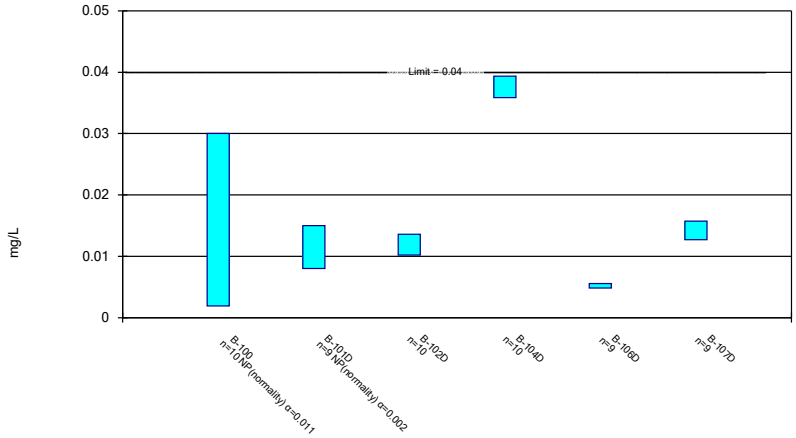

Constituent: Lithium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

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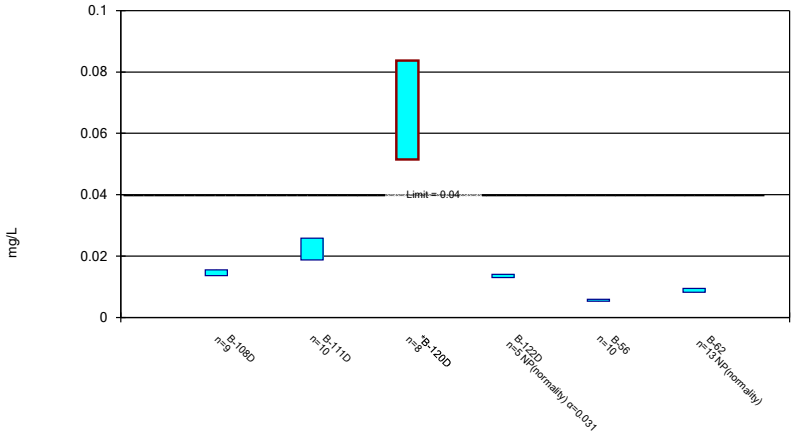

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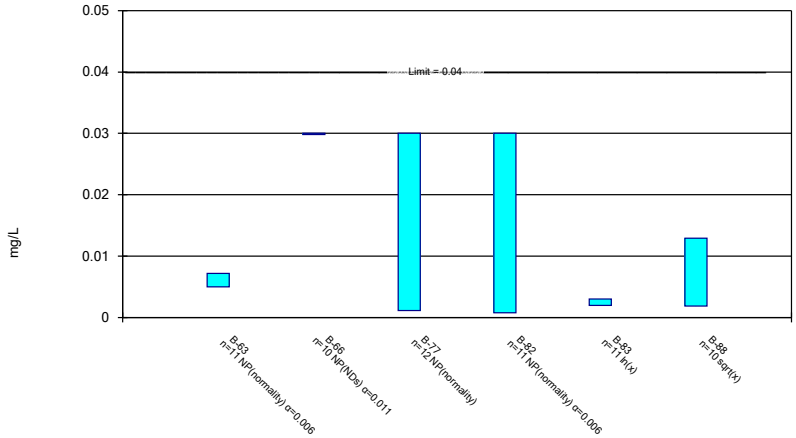

Constituent: Lithium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
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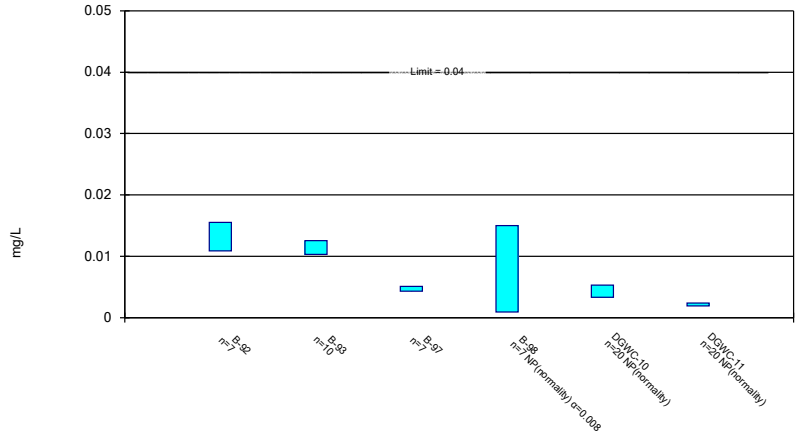
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

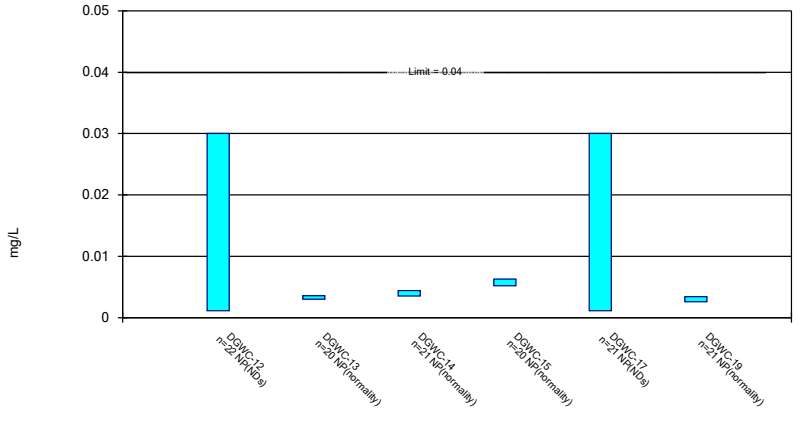


Constituent: Lithium Analysis Run 12/10/2024 3:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

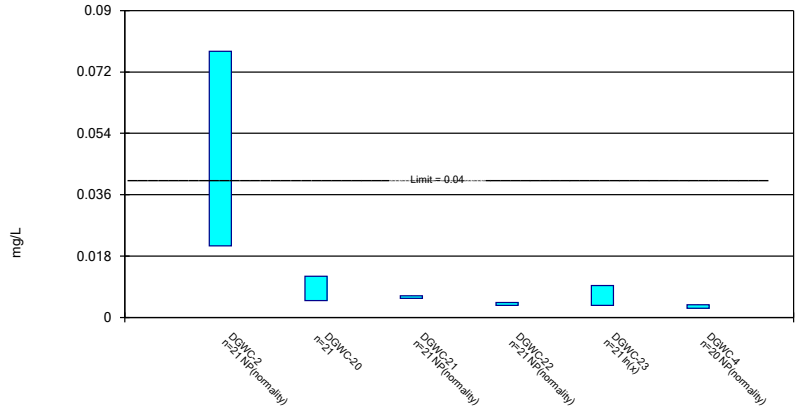


Constituent: Lithium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

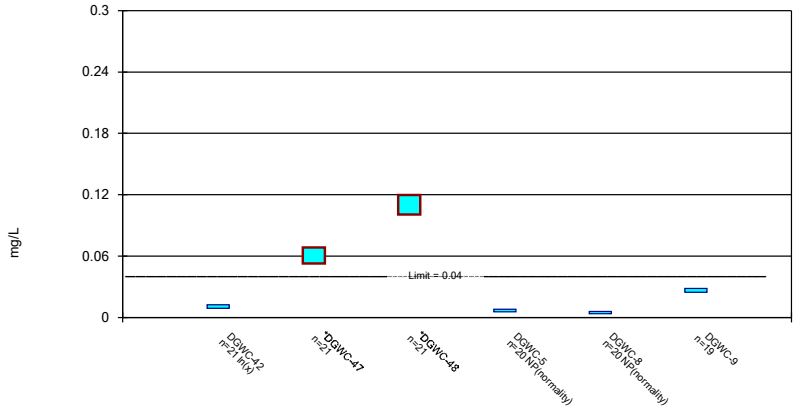


Constituent: Lithium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

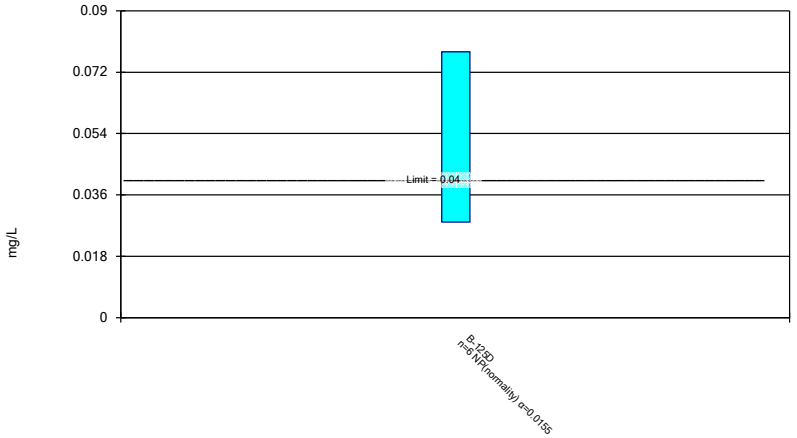


Constituent: Lithium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

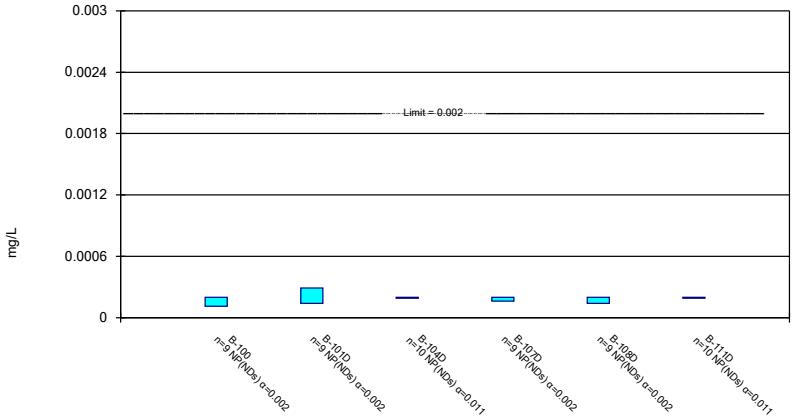


Constituent: Lithium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

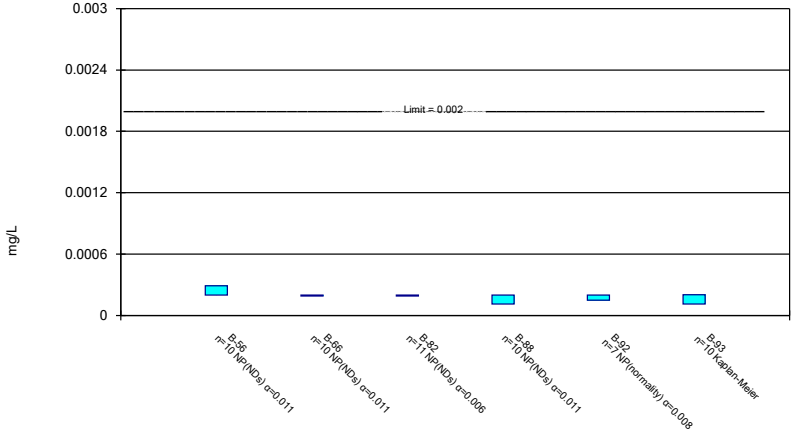


Constituent: Mercury Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

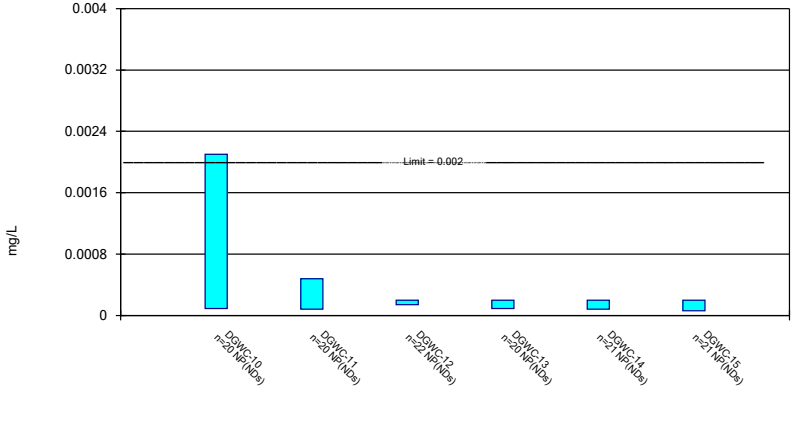


Constituent: Mercury Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

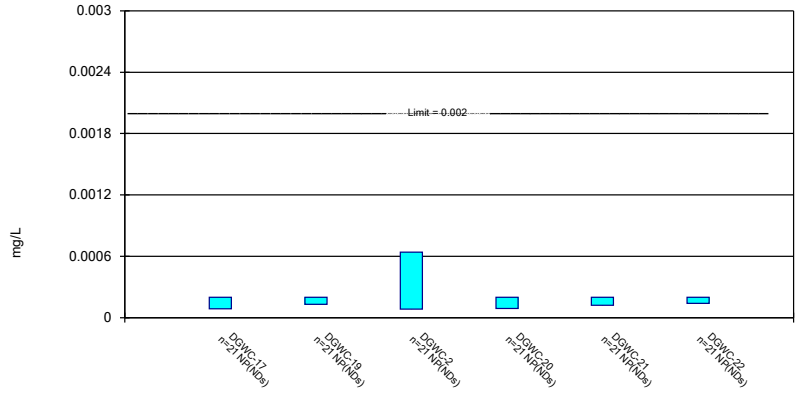


Constituent: Mercury Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

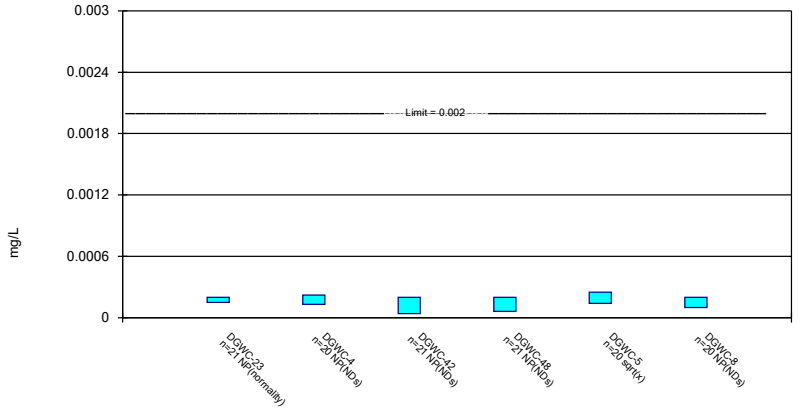


Constituent: Mercury Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

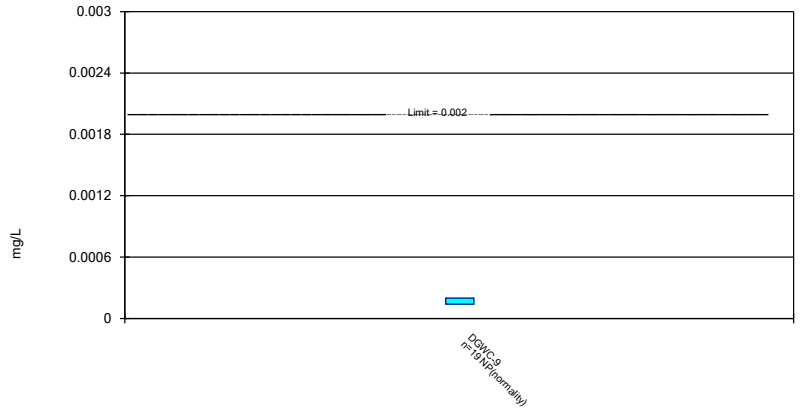


Constituent: Mercury Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

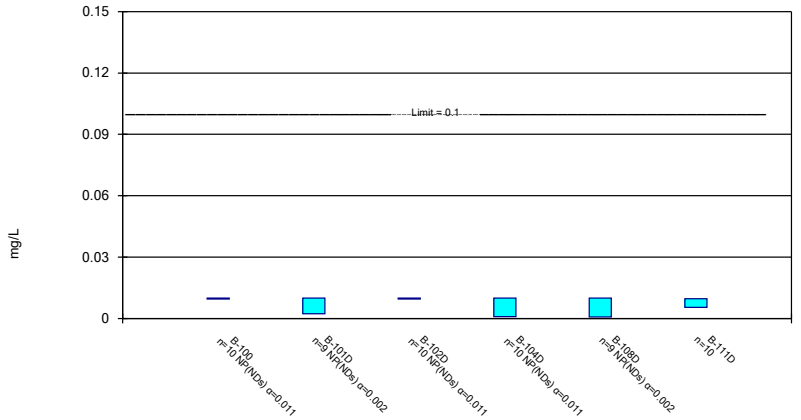


Constituent: Mercury Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

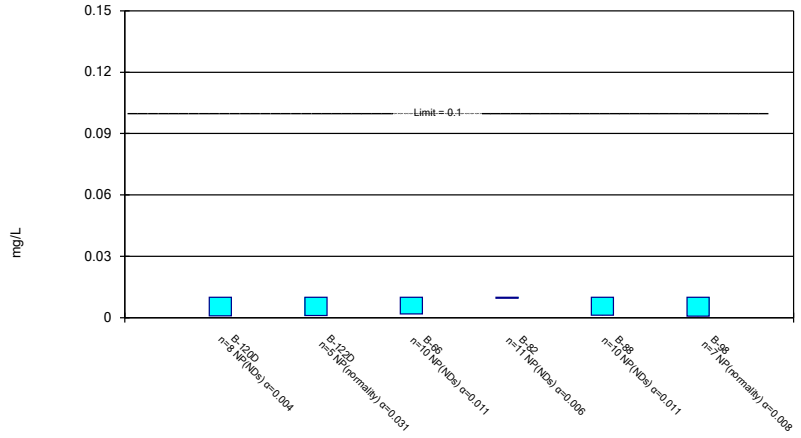


Constituent: Molybdenum Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

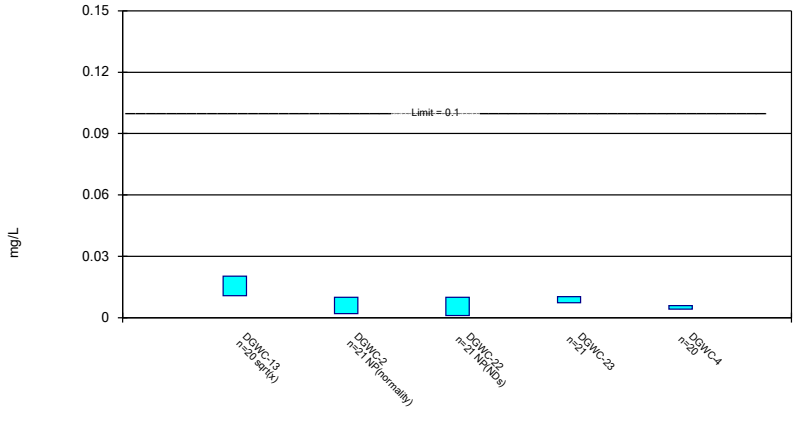


Constituent: Molybdenum Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

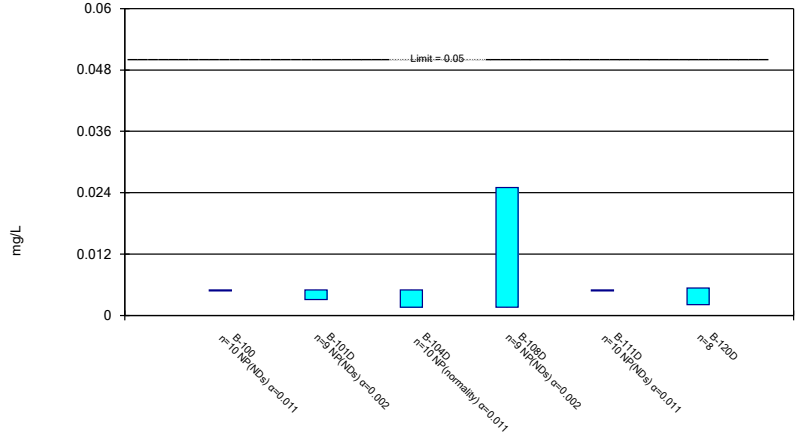


Constituent: Molybdenum Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

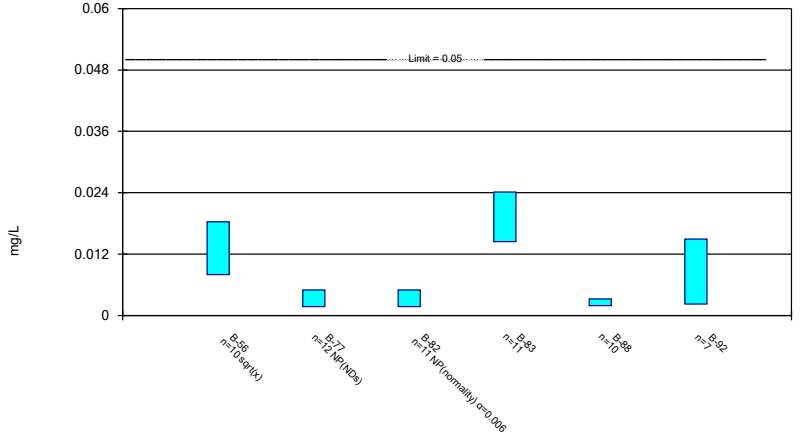


Constituent: Selenium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

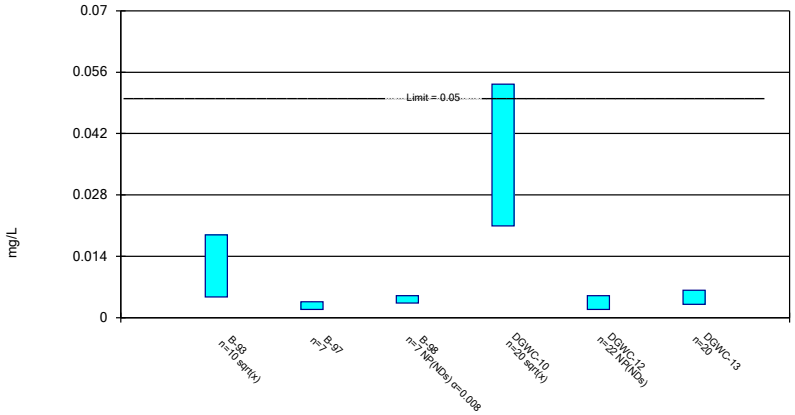


Constituent: Selenium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

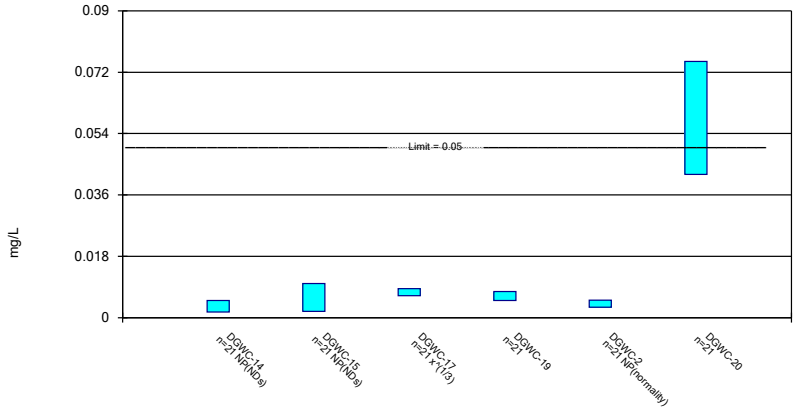


Constituent: Selenium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

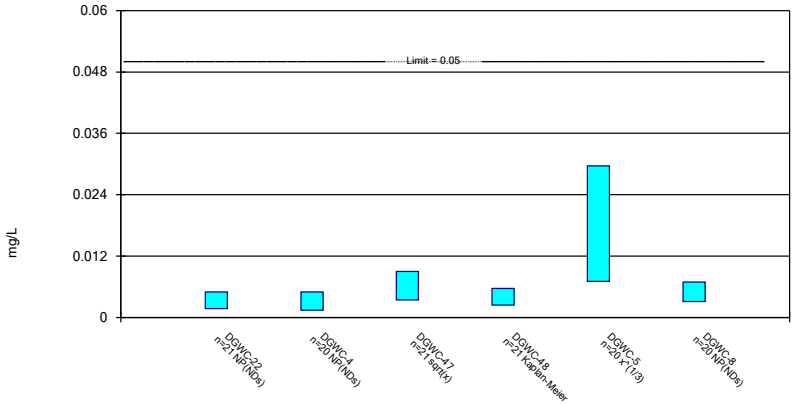


Constituent: Selenium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

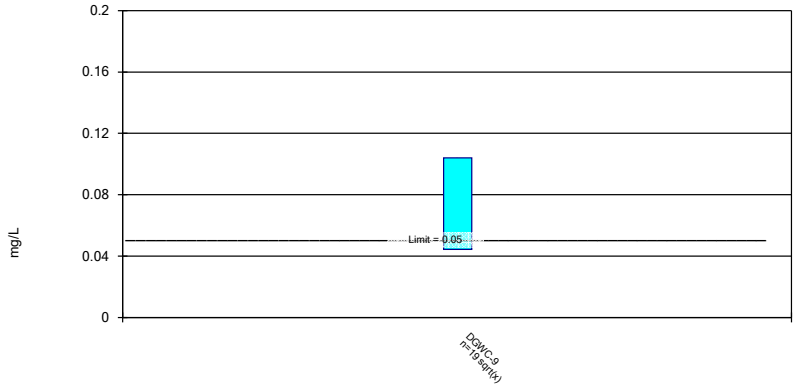


Constituent: Selenium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

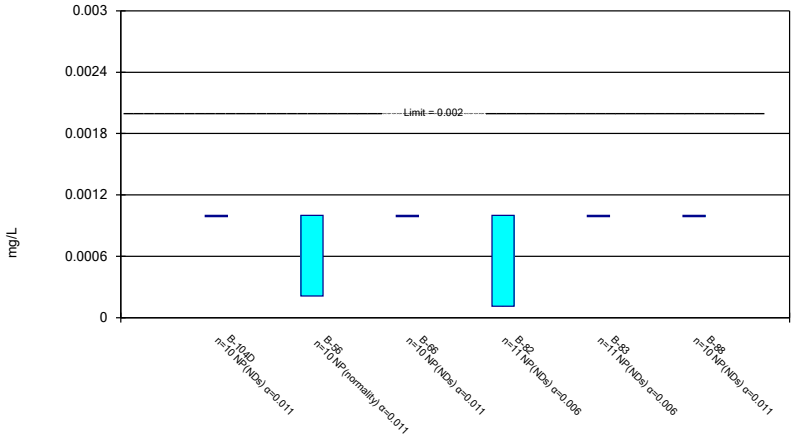


Constituent: Selenium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

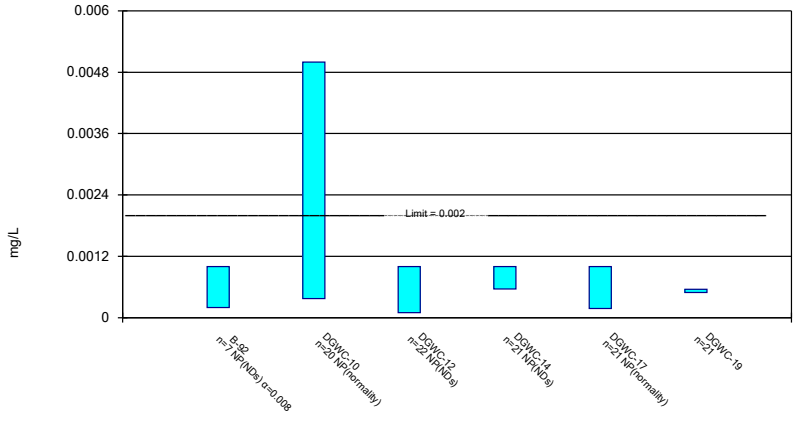


Constituent: Thallium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

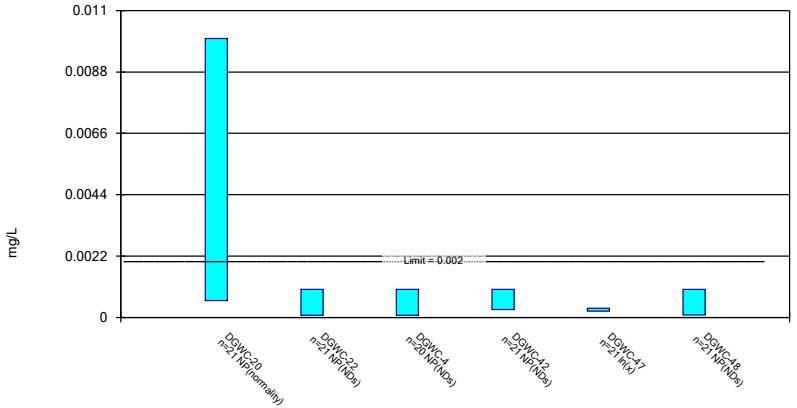


Constituent: Thallium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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.

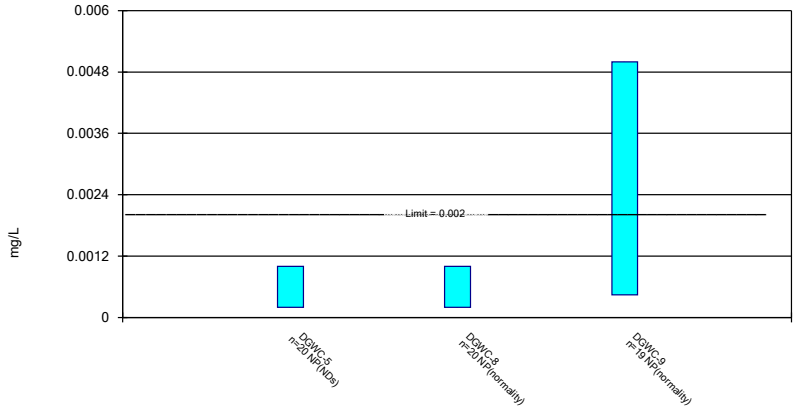


Constituent: Thallium Analysis Run 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a 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 12/10/2024 3:51 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-111D
8/17/2020	0.0013 (J)					
9/25/2020	<0.003					
12/9/2020				0.00079 (J)		<0.003
12/17/2020			0.0016 (J)		0.00048 (J)	
1/11/2021			<0.003			
1/12/2021		0.00039 (J)		0.00048 (J)		<0.003
3/4/2021			<0.003	0.00077 (J)	<0.003	
3/5/2021		0.0019 (J)				0.0006 (J)
3/8/2021	0.0017 (J)					
9/10/2021			<0.003			
9/13/2021	<0.003	0.001 (J)			<0.003	
9/14/2021				<0.003		<0.003
1/21/2022	<0.003					
1/24/2022				0.001 (J)		<0.003
1/25/2022					<0.003	
1/26/2022		0.00082 (J)				
1/27/2022			<0.003			
9/8/2022	<0.003					
9/13/2022				<0.003		
9/14/2022						<0.003
9/15/2022			<0.003			
9/16/2022		<0.003			<0.003	
2/2/2023	<0.003		<0.003			
2/3/2023		<0.003		<0.003		
2/7/2023					<0.003	<0.003
9/6/2023	<0.003					
9/8/2023		<0.003				
9/11/2023			<0.003		<0.003	
9/13/2023				<0.003		0.0016 (J)
1/31/2024	<0.003					
2/2/2024		0.00062 (J)	0.001 (J)		<0.003	
2/5/2024				<0.003		<0.003
9/5/2024	<0.003					
9/9/2024					<0.003	<0.003
9/10/2024		<0.003	<0.003	<0.003		
Mean	0.0027	0.001859	0.00266	0.002104	0.00272	0.00262
Std. Dev.	0.0006394	0.001158	0.0007306	0.001163	0.00084	0.0008351
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0017	0.00039	0.0016	0.00077	0.00048	0.0016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-56	B-62	B-63	B-77
1/28/2019					<0.003	
1/30/2019				<0.003		
9/11/2019				<0.003	<0.003	
9/18/2019						<0.003
10/21/2019				<0.003		
10/22/2019					0.00066 (J)	
10/24/2019						<0.003
8/13/2020				<0.003		0.00043 (J)
8/17/2020			<0.003			
9/24/2020				0.00046 (J)		0.00036 (J)
9/28/2020			<0.003			
3/3/2021			<0.003			
3/4/2021						0.00063 (J)
3/12/2021				<0.003		
4/15/2021	0.00029 (J)					
9/9/2021				<0.003		
9/13/2021			<0.003			
9/14/2021	<0.003				<0.003	<0.003
1/20/2022	<0.003			<0.003	<0.003	<0.003
1/27/2022			0.0011 (J)			
6/6/2022		<0.003				
9/8/2022				<0.003		
9/13/2022						<0.003
9/14/2022					<0.003	
9/16/2022			<0.003			
9/19/2022	<0.003					
2/2/2023				<0.003	<0.003	
2/3/2023	<0.003					
2/6/2023		<0.003				<0.003
2/7/2023			<0.003			
9/7/2023		<0.003		<0.003	<0.003	
9/8/2023			<0.003			
9/12/2023	<0.003					<0.003
2/1/2024		0.0006 (J)		<0.003	<0.003	
2/5/2024	<0.003		<0.003			<0.003
9/6/2024					<0.003	
9/9/2024	<0.003			<0.003		
9/10/2024		<0.003				
9/11/2024			<0.003			<0.003
Mean	0.002661	0.00252	0.00281	0.002805	0.002766	0.002368
Std. Dev.	0.0009581	0.001073	0.0006008	0.0007045	0.00074	0.001144
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00029	0.0006	0.003	0.00046	0.003	0.00043

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-98	DGWC-10	DGWC-12	DGWC-14	DGWC-15
8/31/2016			<0.003		<0.003	
9/1/2016				<0.003		
9/6/2016						<0.003
12/6/2016			<0.003		<0.003	
12/7/2016				<0.003		<0.003
3/29/2017			<0.003	<0.003	<0.003	
3/30/2017						<0.003
7/12/2017			<0.003	<0.003	<0.003	<0.003
10/24/2017			<0.003			
10/25/2017				<0.003	<0.003	<0.003
2/27/2018			<0.003	<0.003	<0.003	
2/28/2018						<0.003
7/11/2018				<0.003	<0.003	<0.003
11/6/2018			<0.003			
11/7/2018				<0.003	<0.003	<0.003
8/27/2019			<0.003	<0.003	<0.003	
8/28/2019						0.00033 (J)
9/17/2019				<0.003		
10/15/2019			<0.003	<0.003		
10/16/2019					<0.003	
10/17/2019						<0.003
3/2/2020				0.0003 (J)		
3/3/2020			<0.003		<0.003	<0.003
8/11/2020			<0.003	<0.003	<0.003	
8/13/2020						0.00073 (J)
8/19/2020	<0.003					
9/22/2020				<0.003	0.0011 (J)	
9/23/2020						<0.003
9/24/2020			<0.003			
9/28/2020	0.0014 (J)					
3/2/2021					<0.003	<0.003
3/3/2021				<0.003		
3/4/2021			<0.003			
3/9/2021	<0.003					
9/9/2021				<0.003	<0.003	<0.003
9/10/2021			<0.003			
9/15/2021	<0.003	<0.003				
1/24/2022						<0.003
1/25/2022				<0.003	<0.003	
1/26/2022	<0.003	<0.003	0.0021 (J)			
9/12/2022	0.00096 (J)					
9/13/2022		<0.003			<0.003	<0.003
9/15/2022			<0.003	<0.003		
1/31/2023	0.0015 (J)	0.001 (J)				
2/1/2023					0.001 (J)	
2/2/2023			<0.003			<0.003
2/6/2023				<0.003		
9/6/2023	<0.003	<0.003				
9/8/2023					<0.003	<0.003
9/11/2023			<0.003	<0.003		
1/30/2024	<0.003	<0.003				
2/2/2024			<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-98	DGWC-10	DGWC-12	DGWC-14	DGWC-15
2/5/2024					<0.003	<0.003
9/4/2024	<0.003					
9/5/2024		<0.003		<0.003		<0.003
9/10/2024					<0.003	
9/11/2024			<0.003			
Mean	0.002486	0.002714	0.002955	0.002877	0.002814	0.002765
Std. Dev.	0.0008386	0.0007559	0.0002012	0.0005756	0.0005868	0.0007456
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0014	0.001	0.0021	0.0003	0.0011	0.00073

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.003				
9/2/2016				<0.003	<0.003	
9/7/2016	<0.003					
12/7/2016		<0.003		<0.003		
12/8/2016	<0.003				<0.003	
3/29/2017		<0.003		<0.003		
3/30/2017	<0.003		<0.003		<0.003	<0.003
5/11/2017			<0.003			
5/12/2017						<0.003
6/15/2017			0.0006 (J)			0.0007 (J)
7/11/2017			<0.003			
7/12/2017	<0.003	<0.003		<0.003	<0.003	<0.003
10/24/2017			<0.003			
10/25/2017	<0.003	<0.003		<0.003	<0.003	
10/26/2017						<0.003
2/27/2018			<0.003			
2/28/2018	<0.003	<0.003		<0.003	<0.003	
3/1/2018						<0.003
7/11/2018	<0.003	<0.003	<0.003	<0.003	0.0013 (J)	
7/12/2018						<0.003
11/6/2018			<0.003			
11/7/2018	<0.003	<0.003		<0.003	<0.003	
11/8/2018						<0.003
8/27/2019	<0.003		<0.003			
8/28/2019		<0.003				
8/29/2019				<0.003	<0.003	<0.003
10/16/2019		<0.003				
10/17/2019			<0.003	<0.003	<0.003	
10/18/2019	<0.003					<0.003
3/3/2020		<0.003	<0.003		<0.003	
3/4/2020	<0.003			<0.003		<0.003
8/11/2020		<0.003	<0.003			
8/13/2020				<0.003		<0.003
8/14/2020	<0.003				<0.003	
9/22/2020		0.00036 (J)		<0.003		
9/23/2020			<0.003			
9/24/2020	0.00045 (J)				<0.003	<0.003
3/2/2021		<0.003	<0.003	<0.003		
3/3/2021	<0.003				<0.003	<0.003
9/9/2021		<0.003	<0.003		<0.003	<0.003
9/10/2021				<0.003		
9/13/2021	<0.003					
1/20/2022			<0.003		<0.003	<0.003
1/21/2022				<0.003		
1/24/2022	<0.003					
1/25/2022		<0.003				
9/14/2022	<0.003	<0.003				
9/15/2022				<0.003	<0.003	
9/20/2022			<0.003			<0.003
2/6/2023	<0.003	<0.003	<0.003			<0.003
2/7/2023				<0.003	<0.003	
9/8/2023		0.0013 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/11/2023				0.0018 (J)	<0.003	<0.003
9/13/2023	<0.003		<0.003			
1/31/2024					<0.003	<0.003
2/1/2024		<0.003	<0.003	<0.003		
2/6/2024	<0.003					
9/4/2024					<0.003	
9/5/2024		<0.003		<0.003		<0.003
9/9/2024			<0.003			
9/10/2024	<0.003					
Mean	0.002879	0.002793	0.002886	0.002943	0.002919	0.00289
Std. Dev.	0.0005565	0.0006694	0.0005237	0.0002619	0.000371	0.0005019
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00045	0.0013	0.0006	0.0018	0.0013	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016					<0.003
8/31/2016				<0.003	
9/1/2016		<0.003	<0.003		
12/6/2016				<0.003	<0.003
12/8/2016		<0.003	<0.003		
3/28/2017	<0.003			<0.003	
3/29/2017					<0.003
3/30/2017			<0.003		
3/31/2017		<0.003			
5/12/2017	<0.003				
6/15/2017	0.0008 (J)				
7/11/2017	<0.003			<0.003	<0.003
7/13/2017		<0.003	<0.003		
10/24/2017	<0.003				<0.003
10/25/2017				<0.003	
10/26/2017		<0.003	<0.003		
2/27/2018	<0.003			<0.003	<0.003
3/1/2018		<0.003			
3/2/2018			<0.003		
7/12/2018		<0.003	<0.003		
11/6/2018	<0.003			<0.003	<0.003
11/7/2018		<0.003	<0.003		
8/27/2019	<0.003			<0.003	
8/28/2019					<0.003
8/29/2019		<0.003	<0.003		
10/15/2019	<0.003				
10/16/2019				<0.003	<0.003
10/17/2019		<0.003			
10/18/2019			<0.003		
3/2/2020	0.00058 (J)			0.00032 (J)	
3/3/2020					<0.003
3/4/2020		<0.003	<0.003		
8/12/2020	<0.003	<0.003		<0.003	<0.003
8/13/2020			<0.003		
9/22/2020	<0.003			<0.003	
9/23/2020		0.0012 (J)	0.00039 (J)		<0.003
3/1/2021	0.00049 (J)				
3/2/2021				0.0015 (J)	0.00046 (J)
3/3/2021		<0.003	<0.003		
9/10/2021	<0.003	<0.003	0.0018 (J)	<0.003	
9/13/2021					<0.003
1/21/2022		<0.003			
1/24/2022	<0.003		<0.003	<0.003	
1/25/2022					<0.003
9/13/2022		<0.003	<0.003		
9/14/2022				<0.003	
9/15/2022					<0.003
9/19/2022	<0.003				
2/3/2023	<0.003	<0.003	<0.003		
2/7/2023				<0.003	<0.003
9/12/2023		<0.003			<0.003
9/13/2023	<0.003		<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-47	DGWC-48	DGWC-5	DGWC-8
2/1/2024	0.0028 (J)			0.00068 (J)	<0.003
2/5/2024		<0.003	<0.003		
9/5/2024		0.0014 (J)			
9/6/2024	<0.003			<0.003	
9/9/2024					0.0021 (J)
9/10/2024			<0.003		
Mean	0.002634	0.002838	0.002819	0.002675	0.002828
Std. Dev.	0.0008691	0.0005123	0.0006149	0.0008176	0.0005925
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0028	0.0014	0.0018	0.0015	0.0021

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-104D	B-106D	B-107D	B-108D	B-111D
12/9/2020		<0.005		<0.005	<0.005	<0.005
12/17/2020			<0.005			
1/12/2021	<0.005	<0.005				<0.005
3/4/2021		0.0025 (J)	<0.005	<0.005	<0.005	
3/5/2021	0.0017 (J)					0.0023 (J)
9/13/2021	<0.005		<0.005	<0.005		
9/14/2021		0.0019 (J)			<0.005	0.0029 (J)
1/24/2022		0.0035 (J)		<0.005	<0.005	0.0022 (J)
1/25/2022			<0.005			
1/26/2022	<0.005					
9/13/2022		<0.005				
9/14/2022				<0.005		<0.005
9/15/2022					<0.005	
9/16/2022	<0.005		<0.005			
2/3/2023	<0.005	<0.005				
2/6/2023				<0.005		
2/7/2023			<0.005		<0.005	<0.005
9/8/2023	<0.005					
9/11/2023			<0.005			
9/12/2023				<0.005		
9/13/2023		<0.005			<0.005	<0.005
2/1/2024				<0.005	0.008	
2/2/2024	<0.005		<0.005			
2/5/2024		0.00093 (J)				<0.005
9/9/2024			0.0024 (J)	0.0022 (J)	0.0026 (J)	0.0028 (J)
9/10/2024	<0.005	<0.005				
Mean	0.004633	0.003883	0.004711	0.004689	0.005067	0.00402
Std. Dev.	0.0011	0.00157	0.0008667	0.0009333	0.001356	0.001281
Upper Lim.	0.005	0.005	0.005	0.005	0.008	0.005
Lower Lim.	0.0017	0.0019	0.0024	0.0022	0.0026	0.0023

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-66	B-77
11/22/2016					<0.005	
2/19/2018					<0.005	
1/28/2019				<0.005		
1/30/2019			<0.005		<0.005	
9/11/2019			<0.005	<0.005		
9/12/2019					<0.005	
9/18/2019						<0.005
10/21/2019			<0.005		<0.005	
10/22/2019				<0.005		
10/24/2019						0.0029 (J)
8/13/2020			<0.005			0.002 (J)
8/17/2020		0.0032 (J)				
9/24/2020			<0.005			0.0025 (J)
9/28/2020		0.0047 (J)				
3/3/2021		0.003 (J)				
3/4/2021						0.002 (J)
3/12/2021			<0.005		<0.005	
4/15/2021	<0.005					
9/9/2021			<0.005			
9/13/2021		0.0031 (J)				
9/14/2021	<0.005			<0.005	<0.005	<0.005
1/20/2022	0.0016 (J)		0.0033 (J)	0.0022 (J)		0.003 (J)
1/25/2022					<0.005	
1/27/2022		0.0045 (J)				
9/8/2022			<0.005			
9/13/2022						<0.005
9/14/2022				<0.005		
9/16/2022		<0.005			<0.005 (D)	
9/19/2022	<0.005					
2/2/2023			<0.005	<0.005		
2/3/2023	<0.005					
2/6/2023						<0.005
2/7/2023		0.005 (J)			<0.005	
9/7/2023			<0.005	<0.005		
9/8/2023		0.0043 (J)				
9/11/2023					<0.005	
9/12/2023	<0.005					<0.005
2/1/2024			<0.005	<0.005	<0.005	
2/5/2024	<0.005	0.0042 (J)				0.0014 (J)
9/6/2024				<0.005		
9/9/2024	<0.005		<0.005		0.0028 (J)	
9/11/2024		0.0019 (J)				<0.005
Mean	0.004575	0.00364	0.004869	0.00472	0.004831	0.00365
Std. Dev.	0.001202	0.001037	0.0004715	0.0008854	0.0006102	0.001469
Upper Lim.	0.005	0.004566	0.005	0.005	0.005	0.005
Lower Lim.	0.0016	0.002714	0.0033	0.005	0.0028	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-92	B-93	B-97	DGWC-10
8/31/2016						0.0058
12/6/2016						0.0017 (J)
3/29/2017						0.0055
7/12/2017						0.0042 (J)
10/24/2017						0.0058
2/27/2018						0.0105
11/6/2018						<0.005 (J)
8/27/2019						0.0024 (J)
9/23/2019	<0.005					
10/15/2019						0.0078
10/21/2019	<0.005	<0.005				
3/3/2020						0.0025 (J)
8/11/2020						0.0028 (J)
8/14/2020		<0.005				
8/17/2020	<0.005					
8/19/2020				0.0013 (J)		
9/24/2020						0.0078
9/25/2020		<0.005				
9/28/2020	<0.005			0.0027 (J)		
3/4/2021		<0.005				0.006
3/9/2021				<0.005		
3/12/2021	<0.005					
9/10/2021						0.0076
9/14/2021	<0.005					
9/15/2021			0.0012 (J)	<0.005	<0.005	
9/16/2021		<0.005				
1/21/2022		0.0014 (J)				
1/25/2022	0.003 (J)					
1/26/2022			0.0015 (J)	0.002 (J)	0.0014 (J)	0.0043 (J)
9/12/2022			<0.005	<0.005		
9/13/2022		<0.005			<0.005	
9/15/2022						0.0024 (J)
9/16/2022	<0.005 (D)					
1/31/2023			0.0023 (J)	0.0028 (J)		
2/1/2023					<0.005	
2/2/2023						0.0036 (J)
2/3/2023		<0.005				
2/7/2023	0.004 (J)					
9/6/2023			<0.005	<0.005	<0.005	
9/11/2023	<0.005					0.0065
9/12/2023		<0.005				
1/30/2024			0.0021 (J)	<0.005		
1/31/2024					<0.005	
2/1/2024	<0.005	<0.005				
2/2/2024						0.0063
9/4/2024			0.0019 (J)	0.0013 (J)	0.0023 (J)	
9/6/2024		<0.005				
9/9/2024	0.0059					
9/11/2024						0.043
Mean	0.004825	0.004673	0.002714	0.00351	0.0041	0.00695
Std. Dev.	0.0007034	0.001085	0.001604	0.001643	0.001559	0.008802
Upper Lim.	0.0059	0.005	0.002295	0.005	0.005	0.007534

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-92	B-93	B-97	DGWC-10
Lower Lim.	0.004	0.005	0.001324	0.0013	0.0014	0.003353

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-11	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016	<0.005		<0.005			
9/1/2016		<0.005				0.0022 (J)
9/6/2016				<0.005		
9/7/2016					<0.005	
12/6/2016	<0.005		<0.005			
12/7/2016		<0.005		<0.005		<0.005
12/8/2016					<0.005	
3/29/2017	<0.005	<0.005	<0.005			0.002 (J)
3/30/2017				0.0006 (J)	0.0008 (J)	
7/12/2017	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	<0.005					
10/25/2017		0.0006 (J)	<0.005	<0.005	0.0007 (J)	0.0022 (J)
2/27/2018	<0.005	<0.005	<0.005			
2/28/2018				<0.005	0.00073 (J)	0.0028 (J)
7/11/2018		<0.005	<0.005	<0.005	<0.005	0.0009 (J)
11/6/2018	<0.005					
11/7/2018		<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	<0.005	<0.005	<0.005		<0.005	
8/28/2019				<0.005		0.00049 (J)
9/17/2019		<0.005				
10/15/2019	<0.005	0.00063 (J)				
10/16/2019			0.00039 (J)			0.00046 (J)
10/17/2019				0.00064 (J)		
10/18/2019					0.0012 (J)	
3/2/2020	<0.005	<0.005				
3/3/2020			<0.005	<0.005		<0.005
3/4/2020					0.0014 (J)	
8/11/2020	<0.005	<0.005	<0.005			0.0014 (J)
8/13/2020				0.0013 (J)		
8/14/2020					<0.005	
9/22/2020	<0.005	<0.005	<0.005			0.0017 (J)
9/23/2020				<0.005		
9/24/2020					0.0011 (J)	
3/2/2021	<0.005		<0.005	<0.005		0.0013 (J)
3/3/2021		<0.005			<0.005	
9/9/2021	<0.005	<0.005	<0.005	<0.005		0.0027 (J)
9/13/2021					<0.005	
1/24/2022				<0.005	0.0014 (J)	
1/25/2022	<0.005	<0.005	<0.005			0.0014 (J)
9/13/2022			<0.005	<0.005		
9/14/2022					<0.005	<0.005
9/15/2022	<0.005	<0.005				
2/1/2023			<0.005			
2/2/2023				<0.005		
2/6/2023	<0.005	<0.005			<0.005	<0.005
9/8/2023	<0.005		<0.005	<0.005		<0.005
9/11/2023		<0.005				
9/13/2023					<0.005	
2/1/2024	<0.005					0.00088 (J)
2/2/2024		<0.005				
2/5/2024			<0.005	<0.005		
2/6/2024					<0.005	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-11	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/5/2024		<0.005		<0.005		0.0011 (J)
9/9/2024	0.0022 (J)					
9/10/2024			<0.005		0.0048 (J)	
Mean	0.00486	0.004601	0.00478	0.004407	0.003673	0.00253
Std. Dev.	0.0006261	0.00129	0.001006	0.001494	0.00191	0.001713
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.001762
Lower Lim.	0.0022	0.00063	0.00039	0.0013	0.0012	0.0009791

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
1/20/2022	0.0023 (J)		<0.005		<0.005	
1/21/2022		0.015				0.0036 (J)
1/24/2022				0.0011 (J)		
9/13/2022					<0.005	<0.005
9/15/2022		0.016				

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/16/2022			<0.005			
9/19/2022				<0.005		
9/20/2022	<0.005					
2/1/2023					<0.005	
2/3/2023				<0.005		<0.005
2/6/2023	<0.005		<0.005			
2/7/2023		0.023				
9/11/2023		0.029	<0.005			
9/12/2023						<0.005
9/13/2023	<0.005			<0.005	<0.005	
1/30/2024					<0.005	
1/31/2024			<0.005			
2/1/2024	<0.005	0.025		<0.005		
2/5/2024						0.001 (J)
9/5/2024		0.055			<0.005	<0.005
9/6/2024				<0.005		
9/9/2024	0.0027 (J)		0.0016 (J)			
Mean	0.004452	0.01639	0.004648	0.004145	0.00461	0.003048
Std. Dev.	0.001196	0.01159	0.001117	0.001758	0.001235	0.001645
Upper Lim.	0.005	0.0208	0.005	0.005	0.005	0.002455
Lower Lim.	0.0027	0.009796	0.0016	0.0011	0.0011	0.001361

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016			<0.005	0.0241
8/31/2016		0.0035 (J)		
9/1/2016	<0.005			
12/6/2016		0.0032 (J)	<0.005	<0.005
12/8/2016	<0.005			
3/28/2017		0.0385		0.0243
3/29/2017			0.001 (J)	
3/30/2017	0.0015 (J)			
7/11/2017		0.0203	0.0012 (J)	0.0194
7/13/2017	0.0012 (J)			
10/24/2017			0.0015 (J)	0.0249
10/25/2017		0.0119		
10/26/2017	0.0008 (J)			
2/27/2018		0.0094	0.002 (J)	0.0405
3/2/2018	0.0017 (J)			
7/11/2018				0.016
7/12/2018	0.0015 (J)			
11/6/2018		<0.005	<0.005	0.017
11/7/2018	<0.005			
8/27/2019		<0.005		0.021
8/28/2019			<0.005	
8/29/2019	<0.005			
10/16/2019		0.0036 (J)	<0.005	
10/17/2019				0.033
10/18/2019	0.00079 (J)			
3/2/2020		0.0052		
3/3/2020			0.00096 (J)	0.015
3/4/2020	0.0006 (J)			
8/11/2020				0.022
8/12/2020		0.002 (J)	<0.005	
8/13/2020	<0.005			
9/22/2020		0.0062		0.04
9/23/2020	<0.005		<0.005	
3/2/2021		0.0013 (J)	<0.005	0.021
3/3/2021	<0.005			
9/10/2021	<0.005	0.0031 (J)		0.031
9/13/2021			<0.005	
1/24/2022	<0.005	0.0019 (J)		
1/25/2022			<0.005	
1/26/2022				0.012
9/13/2022	<0.005			
9/14/2022		0.0038 (J)		
9/15/2022			<0.005	
9/19/2022				0.016
2/3/2023	<0.005			0.014
2/7/2023		0.0036 (J)	<0.005	
9/12/2023			<0.005	
9/13/2023	<0.005	<0.005		
2/1/2024		<0.005	<0.005	
2/5/2024	<0.005			
9/6/2024		0.001 (J)		
9/9/2024			0.0019 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/10/2024	0.0025 (J)			
9/11/2024				0.013
Mean	0.0036	0.006925	0.003928	0.02141
Std. Dev.	0.001866	0.008625	0.001696	0.009602
Upper Lim.	0.005	0.006417	0.005	0.02703
Lower Lim.	0.0015	0.002261	0.0019	0.01578

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	0.015					
9/25/2020	0.022					
12/9/2020				0.026		0.13
12/17/2020			0.022		0.022	
1/11/2021			0.024			
1/12/2021		0.076		0.022		
3/4/2021			0.022	0.021	0.021	0.12
3/5/2021		0.064				
3/8/2021	0.022					
9/10/2021			0.02			
9/13/2021	0.021	0.076			0.02	0.087
9/14/2021				0.021		
1/21/2022	0.023					
1/24/2022				0.024		0.092
1/25/2022					0.02	
1/26/2022		0.062				
1/27/2022			0.022			
9/8/2022	0.021					
9/13/2022				0.021		
9/14/2022						0.057
9/15/2022			0.019			
9/16/2022		0.063			0.021	
2/2/2023	0.098		0.02			
2/3/2023		0.048		0.017		
2/6/2023						0.049
2/7/2023					0.022	
9/6/2023	0.021					
9/8/2023		0.075				
9/11/2023			0.019		0.023	
9/12/2023						0.046
9/13/2023				0.02		
1/31/2024	0.019					
2/1/2024						0.04
2/2/2024		0.071	0.019		0.023	
2/5/2024				0.018		
9/5/2024	0.021					
9/9/2024					0.023	0.043
9/10/2024		0.058	0.021	0.022		
Mean	0.0283	0.06589	0.0208	0.0212	0.02167	0.07378
Std. Dev.	0.02459	0.009506	0.001687	0.002616	0.001225	0.03457
Upper Lim.	0.023	0.07507	0.0223	0.02353	0.02285	0.1072
Lower Lim.	0.019	0.05671	0.0193	0.01887	0.02048	0.0404

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	B-56	B-62
1/30/2019						0.018
9/11/2019						0.023
10/21/2019						0.026
8/13/2020						0.026
8/17/2020					0.03	
9/24/2020						0.025
9/28/2020					0.026	
12/9/2020	0.066	0.027				
1/12/2021		0.027				
3/3/2021					0.028	
3/4/2021	0.06					
3/5/2021		0.038				
3/12/2021						0.027
4/15/2021			0.044			
9/9/2021						0.021
9/13/2021					0.026	
9/14/2021	0.06	0.043	0.031			
1/20/2022			0.025			0.021
1/24/2022	0.056	0.038				
1/27/2022					0.03	
6/6/2022				0.039		
9/8/2022						0.018
9/14/2022		0.028				
9/15/2022	0.054					
9/16/2022					0.028	
9/19/2022			0.023			
2/2/2023						0.019
2/3/2023			0.021			
2/6/2023				0.04		
2/7/2023	0.051	0.028			0.027	
9/7/2023				0.044		0.015
9/8/2023					0.028	
9/12/2023			0.021			
9/13/2023	0.051	0.031				
2/1/2024	0.048			0.052		0.017
2/5/2024		0.025	0.033		0.026	
9/9/2024	0.043	0.029	0.017			0.017
9/10/2024				0.041		
9/11/2024					0.024	
Mean	0.05433	0.0314	0.02688	0.0432	0.0273	0.021
Std. Dev.	0.007018	0.006059	0.008725	0.005263	0.001889	0.004041
Upper Lim.	0.06111	0.03681	0.03612	0.05202	0.02899	0.02401
Lower Lim.	0.04756	0.02599	0.01763	0.03438	0.02561	0.01799

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
1/28/2019	0.028					
1/30/2019		0.016				
9/11/2019	0.021					
9/12/2019		0.017				
9/18/2019			0.086			
9/23/2019				0.031		
10/21/2019		0.018		0.03	0.034	
10/22/2019	0.021					
10/24/2019			0.1			
8/13/2020			0.11			
8/14/2020					0.056	
8/17/2020				0.024		0.022
9/24/2020			0.12			
9/25/2020					0.027	0.021
9/28/2020				0.023		
3/4/2021			0.11		0.032	
3/5/2021						0.022
9/13/2021						0.016
9/14/2021	0.026	0.018	0.12	0.022		
9/16/2021					0.03	
1/20/2022	0.02		0.13			
1/21/2022					0.024	
1/25/2022		0.021		0.026		
1/27/2022						0.018
9/13/2022			0.089		0.025	
9/14/2022	0.032					
9/16/2022		0.02		0.02		0.016
2/2/2023	0.056					
2/3/2023					0.024	
2/6/2023			0.11			
2/7/2023		0.023		0.023		0.017
9/7/2023	0.025					
9/11/2023		0.028		0.024		
9/12/2023			0.12		0.028	0.017
2/1/2024	0.062	0.025		0.024	0.027	
2/5/2024			0.11			0.015
9/6/2024	0.049				0.026	
9/9/2024		0.027		0.019		
9/10/2024						0.015
9/11/2024			0.099			
Mean	0.034	0.0213	0.1087	0.02418	0.03027	0.0179
Std. Dev.	0.01568	0.00427	0.0132	0.003683	0.009111	0.002767
Upper Lim.	0.0468	0.02511	0.119	0.02725	0.034	0.02037
Lower Lim.	0.02086	0.01749	0.09831	0.02111	0.024	0.01543

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					0.0321	0.0545
12/6/2016					0.029	0.0564
3/29/2017					0.0335	0.0565
7/12/2017					0.0314	0.0572
10/24/2017					0.0317	0.0596
2/27/2018					0.028	0.0672
11/6/2018					0.025	0.074
8/27/2019					0.021	0.071
10/15/2019					0.024	0.064
3/2/2020						0.071
3/3/2020					0.024	
8/11/2020					0.024	0.064
8/19/2020		0.018				
9/22/2020						0.058
9/24/2020					0.021	
9/28/2020		0.017				
3/2/2021						0.052
3/4/2021					0.025	
3/9/2021		0.016 (J)				
9/9/2021						0.054
9/10/2021					0.019	
9/15/2021	0.015	0.016	0.02	0.082		
1/25/2022						0.047
1/26/2022	0.016	0.021	0.02	0.035	0.022	
9/12/2022	0.017	0.015				
9/13/2022			0.02	0.092		
9/15/2022					0.018	0.047
1/31/2023	0.015	0.015		0.041		
2/1/2023			0.021			
2/2/2023					0.02	
2/6/2023						0.039
9/6/2023	0.013	0.017	0.02	0.051		
9/8/2023						0.034
9/11/2023					0.019	
1/30/2024	0.018	0.014		0.048		
1/31/2024			0.022			
2/1/2024						0.038
2/2/2024					0.018 (J)	
9/4/2024	0.015	0.013	0.021			
9/5/2024				0.12		
9/9/2024						0.043
9/11/2024					0.025	
Mean	0.01557	0.0162	0.02057	0.067	0.02454	0.05537
Std. Dev.	0.001618	0.002251	0.0007868	0.03156	0.004964	0.01144
Upper Lim.	0.01749	0.01821	0.022	0.1045	0.02735	0.06187
Lower Lim.	0.01365	0.01419	0.02	0.02951	0.02172	0.04887

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.0576			
9/1/2016	0.0254					0.0214
9/6/2016		0.0297		0.0497		
9/7/2016					0.0694	
12/6/2016			0.0608			
12/7/2016	0.0241	0.0266		0.0469		0.0191
12/8/2016					0.062	
3/29/2017	0.0268		0.0693			0.0209
3/30/2017		0.0308		0.0495	0.0615	
7/12/2017	0.0262	0.0291	0.0585	0.0517	0.0532	0.0212
10/25/2017	0.0268		0.0563	0.0474	0.0544	0.021
11/15/2017		0.0309				
2/27/2018	0.0255		0.0591			
2/28/2018		<0.01		0.0455	0.0527	0.0213
7/11/2018	0.026		0.061	0.05	0.053	0.023
11/7/2018	0.028	0.034	0.055	0.042	0.044	0.024
8/27/2019	0.024		0.059		0.05	
8/28/2019		0.033		0.047		0.026
9/17/2019	0.02					
10/15/2019	0.02					
10/16/2019		0.034	0.059			0.024
10/17/2019				0.046		
10/18/2019					0.045	
3/2/2020	0.04					
3/3/2020		0.035	0.064	0.05		0.028
3/4/2020					0.044	
8/11/2020	0.028		0.061			0.027
8/12/2020		0.032				
8/13/2020				0.06		
8/14/2020					0.046	
9/22/2020	0.036		0.06			0.026
9/23/2020		0.03		0.043		
9/24/2020					0.033	
3/2/2021		0.03	0.064	0.043		0.026
3/3/2021	0.035				0.036	
9/9/2021	0.04	0.027	0.059	0.041		0.025
9/13/2021					0.031	
1/24/2022				0.041	0.031	
1/25/2022	0.054	0.028	0.064			0.026
9/13/2022			0.063	0.042		
9/14/2022					0.031	0.027
9/15/2022	0.035	0.027				
2/1/2023		0.023	0.057			
2/2/2023				0.039		
2/6/2023	0.047				0.029	0.025
9/8/2023		0.022	0.057	0.035		0.022
9/11/2023	0.058					
9/13/2023					0.031	
1/31/2024		0.024				
2/1/2024						0.024
2/2/2024	0.054					
2/5/2024			0.057	0.037		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
2/6/2024					0.027	
9/5/2024	0.035	0.022		0.037		0.022
9/10/2024			0.06		0.03	
Mean	0.0334	0.02765	0.06008	0.04494	0.04353	0.0238
Std. Dev.	0.01124	0.006625	0.003343	0.005911	0.01271	0.002497
Upper Lim.	0.03852	0.03115	0.06192	0.0482	0.05055	0.02518
Lower Lim.	0.02712	0.02535	0.05823	0.04168	0.03652	0.02243

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		0.0097 (J)	0.0252	0.0397		
12/7/2016		0.0087 (J)				
12/8/2016			0.0262	0.0408		
3/28/2017						0.0363
3/29/2017		0.0094 (J)		0.0417		
3/30/2017	0.0232		0.0272		0.0184	
5/11/2017	0.0231					
5/12/2017					0.0202	0.0337
6/15/2017	0.0223				0.0188	0.03
7/11/2017	0.0201					0.0301
7/12/2017		0.0099 (J)	0.0276		0.0186	
7/13/2017				0.0376		
10/24/2017	0.0206					0.0351
10/25/2017		0.0096 (J)	0.0262	0.0384		
10/26/2017					0.0176	
2/27/2018	0.0207					0.0364
2/28/2018		<0.01	0.027	0.0353		
3/1/2018					0.0164	
7/11/2018	0.022	0.01	0.027			
7/12/2018				0.036	0.022	
11/6/2018	0.021					0.035
11/7/2018		0.011	0.024	0.031		
11/8/2018					0.022	
8/27/2019	0.023					0.036
8/29/2019		0.018	0.027	0.031	0.025	
10/15/2019						0.033
10/17/2019	0.022	0.015	0.027			
10/18/2019				0.032	0.019	
3/2/2020						0.036
3/3/2020	0.022		0.027	0.035		
3/4/2020		0.017			0.032	
8/11/2020	0.022					
8/12/2020						0.036
8/13/2020		0.019			0.027	
8/14/2020			0.027	0.035		
9/22/2020		0.011				0.03
9/23/2020	0.023					
9/24/2020			0.024	0.031	0.02	
3/1/2021						0.039
3/2/2021	0.023	0.021				
3/3/2021			0.024	0.031	0.019	
9/9/2021	0.022		0.023		0.021	
9/10/2021		0.0098		0.027		0.032
1/20/2022	0.022		0.024	0.029	0.024	
1/21/2022		0.018				
1/24/2022						0.035
9/15/2022		0.017	0.024			
9/16/2022				0.029		
9/19/2022						0.032
9/20/2022	0.02				0.019	
2/3/2023						0.034
2/6/2023	0.02			0.027	0.023	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
2/7/2023		0.019	0.024			
9/11/2023		0.014	0.024	0.029	0.022	
9/13/2023	0.023					0.034
1/31/2024			0.024	0.03	0.023	
2/1/2024	0.024	0.015 (J)				0.032
9/4/2024			0.021			
9/5/2024		0.014			0.021	
9/6/2024						0.025
9/9/2024	0.023			0.028		
Mean	0.022	0.01339	0.02526	0.03307	0.02138	0.03353
Std. Dev.	0.001183	0.004357	0.001805	0.004609	0.003561	0.003147
Upper Lim.	0.02265	0.01579	0.027	0.03561	0.02335	0.03532
Lower Lim.	0.02135	0.01098	0.024	0.03053	0.01942	0.03174

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0435	0.0162
8/31/2016				0.0266 (O)		
9/1/2016		0.0162	0.0157			
9/7/2016	0.0194					
12/6/2016				0.0186	0.0431	0.0138
12/8/2016	0.0189	0.0247	0.0155			
3/28/2017				0.0187		0.017
3/29/2017					0.044	
3/30/2017			0.0131			
3/31/2017	0.0194	0.0189				
7/11/2017				0.0174 (J)	0.0389	0.0154 (J)
7/13/2017	0.021	0.0165	0.014			
10/24/2017					0.0369	0.0148
10/25/2017	0.0196			0.0175		
10/26/2017		0.0152	0.0117			
2/27/2018				0.0172	0.0346	0.0148
2/28/2018	0.0171					
3/1/2018		0.0164				
3/2/2018			0.0131			
7/11/2018	0.02					0.017
7/12/2018		0.015	0.013			
11/6/2018				0.016	0.027	0.015
11/7/2018	0.017	0.02	0.014			
8/27/2019				0.017		0.016
8/28/2019	0.018				0.025	
8/29/2019		0.018	0.014			
10/16/2019				0.02	0.027	
10/17/2019	0.018	0.019				0.015
10/18/2019			0.014			
3/2/2020				0.018		
3/3/2020					0.026	0.016
3/4/2020	0.015	0.017	0.014			
8/11/2020						0.016
8/12/2020		0.016		0.017	0.034	
8/13/2020	0.027		0.013			
9/22/2020	0.016			0.017		0.015
9/23/2020		0.014	0.013		0.025	
3/2/2021				0.017	0.029	0.017
3/3/2021	0.015	0.02	0.014			
9/10/2021		0.021	0.013	0.015		0.014
9/13/2021	0.014				0.019	
1/20/2022	0.014					
1/21/2022		0.017				
1/24/2022			0.014	0.018		
1/25/2022					0.019	
1/26/2022						0.016
9/13/2022	0.016	0.022	0.014			
9/14/2022				0.018		
9/15/2022					0.021	
9/19/2022						0.017
2/1/2023	0.015					
2/3/2023		0.019	0.013			0.019

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/7/2023				0.019	0.025	
9/12/2023		0.023			0.021	
9/13/2023	0.015		0.015	0.016		
1/30/2024	0.015					
2/1/2024				0.016	0.02	
2/5/2024		0.018	0.013			
9/5/2024	0.014	0.02				
9/6/2024				0.014		
9/9/2024					0.022	
9/10/2024			0.015			
9/11/2024						0.016
Mean	0.01735	0.01842	0.01377	0.01723	0.02905	0.01584
Std. Dev.	0.003125	0.002764	0.0009723	0.001431	0.008503	0.001239
Upper Lim.	0.01891	0.01995	0.0143	0.01807	0.03388	0.01657
Lower Lim.	0.01562	0.0169	0.01323	0.01639	0.02422	0.01512

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	0.0004 (J)					
9/25/2020	0.00035 (J)					
12/9/2020				0.0013 (J)		<0.0005
12/17/2020			0.0014 (J)		0.00012 (J)	
1/11/2021			0.0013 (J)			
1/12/2021		6.6E-05 (J)		0.0015 (J)		
3/4/2021			0.0012	0.0015	0.00013 (J)	5E-05 (J)
3/5/2021		4.7E-05 (J)				
3/8/2021	0.00046 (J)					
9/10/2021			0.0011			
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005
9/14/2021				0.0011		
1/21/2022	0.00053					
1/24/2022				0.0012		<0.0005
1/25/2022					0.00011 (J)	
1/26/2022		7.9E-05 (J)				
1/27/2022			0.0011			
9/8/2022	0.00058					
9/13/2022				0.0014		
9/14/2022						<0.0005
9/15/2022			0.001			
9/16/2022		6.7E-05 (J)			0.00011 (J)	
2/2/2023	<0.0005		0.00091			
2/3/2023		6.3E-05 (J)		0.0016		
2/6/2023						<0.0005
2/7/2023					8.4E-05 (J)	
9/6/2023	0.00054					
9/8/2023		<0.0005				
9/11/2023			0.00074		6.6E-05 (J)	
9/12/2023						<0.0005
9/13/2023				0.0016		
1/31/2024	0.00047 (J)					
2/1/2024						<0.0005
2/2/2024		<0.0005	0.00081		0.0001 (J)	
2/5/2024				0.0014		
9/5/2024	0.00053					
9/9/2024					<0.0005	<0.0005
9/10/2024		<0.0005	0.00087	0.00088		
Mean	0.000464	0.0002099	0.001043	0.001348	0.0001222	0.00045
Std. Dev.	0.0001029	0.0002177	0.0002161	0.0002317	5.228E-05	0.00015
Upper Lim.	0.0005558	0.0005	0.001236	0.001555	0.0001657	0.0005
Lower Lim.	0.0003722	4.7E-05	0.0008502	0.001141	7.882E-05	5E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-120D	B-122D	B-56	B-62	B-63
10/6/2016					9E-05 (J)	
10/7/2016						0.0004 (J)
2/19/2018						0.00049 (J)
1/28/2019						<0.003
1/30/2019					<0.0025	
9/11/2019					0.00012 (J)	0.00035 (J)
10/21/2019					7.8E-05 (J)	
10/22/2019						0.0003 (J)
8/13/2020					0.00011 (J)	
8/17/2020				0.0013 (J)		
9/24/2020					0.00013 (J)	
9/28/2020				0.0012 (J)		
12/9/2020	<0.0005					
3/3/2021				0.0011		
3/4/2021	<0.0005					
3/12/2021					<0.0025	
4/15/2021		0.00085				
9/9/2021					0.00014 (J)	
9/13/2021				0.0012		
9/14/2021	<0.0005	0.00087				0.00042 (J)
1/20/2022		0.0011			0.00015 (J)	0.00034 (J)
1/24/2022	<0.0005					
1/27/2022				0.0012		
6/6/2022			0.00024 (J)			
9/8/2022					0.00013 (J)	
9/14/2022						0.00053
9/15/2022	<0.0005					
9/16/2022				0.0013		
9/19/2022		0.0011				
2/2/2023					0.00012 (J)	0.00028 (J)
2/3/2023		0.001				
2/6/2023			0.00034 (J)			
2/7/2023	<0.0005			0.0012		
9/7/2023			0.00049 (J)		0.00011 (J)	0.0005 (J)
9/8/2023				0.0013		
9/12/2023		0.00066				
9/13/2023	<0.0005					
2/1/2024	0.00058		0.00045 (J)		0.00015 (J)	0.00035 (J)
2/5/2024		0.00089		0.0013		
9/6/2024						0.00035 (J)
9/9/2024	<0.0005	0.00079			0.00018 (J)	
9/10/2024			0.00042 (J)			
9/11/2024				0.0012		
Mean	0.0005089	0.0009075	0.000388	0.00123	0.0002863	0.0004842
Std. Dev.	2.667E-05	0.0001525	9.935E-05	6.749E-05	0.0004091	0.0003297
Upper Lim.	0.00058	0.001069	0.0005545	0.0013	0.00018	0.00053
Lower Lim.	0.0005	0.0007459	0.0002215	0.0012	9E-05	0.0003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-66	B-77	B-82	B-83	B-88	B-92
11/22/2016	<0.0005					
2/19/2018	<0.0005					
1/30/2019	<0.0005					
9/12/2019	<0.0005					
9/18/2019		0.00011 (J)				
9/23/2019			0.0015 (J)			
10/21/2019	<0.0005		0.0011 (J)	0.00039 (J)		
10/24/2019		<0.0005				
12/18/2019						0.022
8/13/2020		0.00014 (J)				
8/14/2020				0.0007 (J)		
8/17/2020			0.0014 (J)		0.0014 (J)	
9/24/2020		5.3E-05 (J)				
9/25/2020				0.00028 (J)	0.00063 (J)	
9/28/2020			0.0015 (J)			
3/4/2021		5.7E-05 (J)		0.00037 (J)		
3/5/2021					0.005	
3/9/2021						0.017
9/13/2021					0.001	
9/14/2021	<0.0005	<0.0005	0.0017			
9/15/2021						0.014
9/16/2021				0.00028 (J)		
1/20/2022		<0.0005				
1/21/2022				0.00039 (J)		
1/25/2022	<0.0005		0.0021			
1/26/2022						0.018
1/27/2022					0.0019	
9/12/2022						0.017
9/13/2022		0.00013 (J)		0.00044 (J)		
9/16/2022	<0.0005		0.002		0.0013	
1/31/2023						0.017
2/3/2023				0.00038 (J)		
2/6/2023		<0.0005				
2/7/2023	<0.0005		0.0018		0.0016	
9/6/2023						0.013
9/11/2023	<0.0005		0.0017			
9/12/2023		<0.0005		0.00038 (J)	0.0014	
1/30/2024						0.016
2/1/2024	<0.0005		0.0016	0.00038 (J)		
2/5/2024		<0.0005			0.0015	
9/4/2024						0.015
9/6/2024				0.00034 (J)		
9/9/2024	0.00019 (J)		0.0017			
9/10/2024					0.0019	
9/11/2024		<0.0005				
Mean	0.0004742	0.0003325	0.001645	0.0003936	0.001763	0.01656
Std. Dev.	8.949E-05	0.0002085	0.000277	0.0001122	0.0012	0.002603
Upper Lim.	0.0005	0.0005	0.001876	0.00044	0.002448	0.01907
Lower Lim.	0.00019	5.7E-05	0.001415	0.00028	0.0009542	0.01404

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98	DGWC-10	DGWC-11	DGWC-12
8/31/2016				0.0046	<0.003	
9/1/2016						0.0002 (J)
12/6/2016				0.0048	<0.003	
12/7/2016						0.0002 (J)
3/29/2017				0.0048	<0.003	0.0002 (J)
7/12/2017				0.0046	<0.003	0.0002 (J)
10/24/2017				0.0048	<0.003	
10/25/2017						0.0002 (J)
2/27/2018				0.0106	<0.003	<0.0005
7/11/2018						0.0002 (J)
11/6/2018				0.012	<0.003 (J)	
11/7/2018						<0.003 (J)
8/27/2019				0.0092	0.00014 (J)	0.00028 (J)
9/17/2019						0.00049 (J)
10/15/2019				0.01	0.00012 (J)	0.00016 (J)
12/19/2019	0.0069					
2/17/2020		<0.003	<0.0005			
2/27/2020		0.0019 (J)	<0.0005			
3/2/2020					0.00016 (J)	7.4E-05 (J)
3/3/2020				0.0085		
8/11/2020				0.0066	0.00011 (J)	0.00024 (J)
8/19/2020	0.015					
9/22/2020					0.00015 (J)	0.00017 (J)
9/24/2020				0.0077		
9/28/2020	0.015					
3/2/2021					0.00014 (J)	
3/3/2021						0.00011 (J)
3/4/2021				0.0086		
3/9/2021	0.017	0.0019				
3/15/2021			<0.0005			
9/9/2021					0.00013 (J)	8.4E-05 (J)
9/10/2021				0.0074		
9/15/2021	0.015	0.0016	0.00087			
1/25/2022					0.00019 (J)	<0.0005
1/26/2022	0.017	0.0017	6.8E-05 (J)	0.0091		
9/12/2022	0.017					
9/13/2022		0.0017	6.2E-05 (J)			
9/15/2022				0.0063	0.00018 (J)	0.00019 (J)
1/31/2023	0.016		<0.0005			
2/1/2023		0.0017				
2/2/2023				0.0066		
2/6/2023					0.00019 (J)	8.2E-05 (J)
9/6/2023	0.014	0.0016	<0.0005			
9/8/2023					0.0002 (J)	
9/11/2023				0.0065		7.7E-05 (J)
1/30/2024	0.013		<0.0005			
1/31/2024		0.0017				
2/1/2024					0.00019 (J)	
2/2/2024				0.0069		<0.0005
9/4/2024	0.012	0.0017				
9/5/2024			0.0002 (J)			0.00013 (J)
9/9/2024					0.00014 (J)	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98	DGWC-10	DGWC-11	DGWC-12
9/11/2024				0.0081		
Mean	0.01435	0.0017	0.00042	0.007385	0.001152	0.000354
Std. Dev.	0.002967	0.0001247	0.0002453	0.00214	0.001391	0.0006077
Upper Lim.	0.01659	0.001811	0.0005	0.0086	0.003	0.00028
Lower Lim.	0.01236	0.001589	6.8E-05	0.00617	0.00014	0.00013

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21
9/1/2016				0.0019 (J)		
9/2/2016					0.0026 (J)	0.0001 (J)
9/6/2016	<0.0005	<0.0005				
9/7/2016			0.0006 (J)			
12/7/2016	<0.0005	<0.0005		0.0021 (J)	0.0035	
12/8/2016			0.0005 (J)			0.0001 (J)
3/29/2017				0.0017 (J)	0.0026 (J)	
3/30/2017	7E-05 (J)	<0.0005	0.0006 (J)			0.0002 (J)
7/12/2017	<0.0005	<0.0005	0.0005 (J)	0.0018 (J)	0.0025 (J)	0.0001 (J)
10/25/2017		<0.0005	0.0005 (J)	0.0019 (J)	0.0027 (J)	0.0002 (J)
11/15/2017	<0.0005					
2/28/2018	<0.0005	<0.0005	<0.003	<0.003	<0.003	<0.003
7/11/2018		<0.0005	0.00058 (J)	0.002 (J)	0.0026 (J)	0.00016 (J)
11/7/2018	<0.003 (J)	<0.003 (J)	<0.003	<0.003 (J)	<0.003 (J)	<0.003 (J)
8/27/2019			0.00066 (J)			
8/28/2019	<0.0005	<0.0005		0.0018 (J)		
8/29/2019					0.005	0.00018 (J)
10/16/2019	<0.0005			0.0017 (J)		
10/17/2019		<0.0005			0.0041	0.00015 (J)
10/18/2019			0.00071 (J)			
3/3/2020	<0.0005	<0.0005		0.0021 (J)		0.00019 (J)
3/4/2020			0.00062 (J)		0.0089	
8/11/2020				0.002 (J)		
8/12/2020	7.8E-05 (J)					
8/13/2020		0.00022 (J)			0.0063	
8/14/2020			0.00064 (J)			0.0002 (J)
9/22/2020				0.002 (J)	0.0027 (J)	
9/23/2020	6.8E-05 (J)	5.8E-05 (J)				
9/24/2020			0.0006 (J)			0.00018 (J)
3/2/2021	7.3E-05 (J)	<0.0005		0.0019	0.0057	
3/3/2021			0.00056			0.00017 (J)
9/9/2021	7E-05 (J)	<0.0005		0.0022		0.00018 (J)
9/10/2021					0.0024	
9/13/2021			0.00052			
1/20/2022						0.00019 (J)
1/21/2022					0.007	
1/24/2022		<0.0005	0.00059			
1/25/2022	9.1E-05 (J)			0.0019		
9/13/2022		<0.0005				
9/14/2022			0.00058	0.0018		
9/15/2022	8E-05 (J)				0.0056	0.00018 (J)
2/1/2023	6.7E-05 (J)					
2/2/2023		<0.0005				
2/6/2023			0.00051	0.0017		
2/7/2023					0.0073	0.00016 (J)
9/8/2023	8.7E-05 (J)	<0.0005		0.0015		
9/11/2023					0.0067	0.00016 (J)
9/13/2023			0.00057			
1/31/2024	<0.0005					0.00017 (J)
2/1/2024				0.0015	0.0078	
2/5/2024		<0.0005				
2/6/2024			0.00058			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21
9/4/2024						0.00016 (J)
9/5/2024	<0.0005	<0.0005		0.0016	0.01	
9/10/2024			0.00059			
Mean	0.0004342	0.0005847	0.0006671	0.001814	0.004714	0.0002919
Std. Dev.	0.00064	0.0005645	0.0002821	0.0002151	0.002544	0.0004028
Upper Lim.	0.0005	0.003	0.00064	0.001933	0.006118	0.0002
Lower Lim.	7.3E-05	0.00022	0.00052	0.001696	0.003311	0.00015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
9/1/2016					0.0165	0.008
9/2/2016	0.0002 (J)					
9/7/2016				0.0021 (J)		
12/8/2016	0.0001 (J)			0.0023 (J)	0.0116	0.0086
3/28/2017			0.0002 (J)			
3/29/2017	0.0002 (J)					
3/30/2017		0.0004 (J)				0.0106
3/31/2017				0.0025 (J)	0.0112	
5/12/2017		0.0004 (J)	0.0002 (J)			
6/15/2017		0.0004 (J)	0.0001 (J)			
7/11/2017			0.0001 (J)			
7/12/2017		0.0004 (J)				
7/13/2017	0.0002 (J)			0.0025 (J)	0.0098	0.0106
10/24/2017			0.0002 (J)			
10/25/2017	0.0002 (J)			0.0026 (J)		
10/26/2017		0.0004 (J)			0.0119	0.0078
2/27/2018			<0.003			
2/28/2018	<0.0005			<0.003		
3/1/2018		<0.003			0.0146	
3/2/2018						0.0096
7/11/2018				0.0029 (J)		
7/12/2018	0.00018 (J)	0.00035 (J)			0.013	0.0086
11/6/2018			<0.003 (J)			
11/7/2018	<0.003 (J)			0.0031	0.014	0.0078
11/8/2018		<0.003 (J)				
8/27/2019			0.00024 (J)			
8/28/2019				0.0023 (J)		
8/29/2019	0.00015 (J)	0.00041 (J)			0.011	0.0081
10/15/2019			0.00022 (J)			
10/17/2019				0.0027 (J)	0.0093	
10/18/2019	0.00014 (J)	0.00038 (J)				0.0099
3/2/2020			0.00025 (J)			
3/3/2020	0.00017 (J)					
3/4/2020		0.00077 (J)		0.0029 (J)	0.01	0.008
8/12/2020			0.00024 (J)		0.0068	
8/13/2020		0.00041 (J)		0.0026 (J)		0.0071
8/14/2020	0.00016 (J)					
9/22/2020			0.00019 (J)	0.0013 (J)		
9/23/2020					0.0069	0.0072
9/24/2020	0.00017 (J)	0.00045 (J)				
3/1/2021			0.00027 (J)			
3/3/2021	0.00013 (J)	0.0005		0.0023	0.0081	0.0068
9/9/2021		0.0005 (J)				
9/10/2021	0.00014 (J)		0.00028 (J)		0.009	0.007
9/13/2021				0.0024		
1/20/2022	0.00014 (J)	0.00046 (J)		0.002		
1/21/2022					0.01	
1/24/2022			0.00033 (J)			0.0069
9/13/2022				0.0028	0.0094	0.0071
9/16/2022	0.00023 (J)					
9/19/2022			0.00034 (J)			
9/20/2022		0.00037 (J)				

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48
2/1/2023				0.0022		
2/3/2023			0.00033 (J)		0.0087	0.0062
2/6/2023	0.0001 (J)	0.00038 (J)				
9/11/2023	0.00012 (J)	0.00035 (J)				
9/12/2023					0.0081	
9/13/2023			0.0004 (J)	0.0024		0.0065
1/30/2024				0.0024		
1/31/2024	0.00013 (J)	0.00048 (J)				
2/1/2024			0.00039 (J)			
2/5/2024					0.0074	0.0055
9/5/2024		0.00032 (J)		0.0027	0.0075	
9/6/2024			0.00034 (J)			
9/9/2024	<0.0005					
9/10/2024						0.0053
Mean	0.0002314	0.00053	0.000381	0.002405	0.01023	0.007771
Std. Dev.	0.000294	0.0003352	0.0003914	0.0004341	0.002642	0.001489
Upper Lim.	0.00023	0.0005	0.00034	0.002644	0.01169	0.008593
Lower Lim.	0.00013	0.00038	0.0002	0.002165	0.008771	0.00695

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-5	DGWC-8	DGWC-9
8/30/2016		0.0018 (J)	0.0045
8/31/2016	0.0054		
12/6/2016	0.0064	0.0034	0.005
3/28/2017	0.0049		0.0052
3/29/2017		0.0031	
7/11/2017	0.005	0.0022 (J)	0.0048
10/24/2017		0.0042	0.0051
10/25/2017	0.0069		
2/27/2018	0.0086	0.0047	0.0057
7/11/2018			0.0058
11/6/2018	0.01	<0.003 (J)	0.006
8/27/2019	0.01		0.007
8/28/2019		0.0021 (J)	
10/16/2019	0.0072	0.0019 (J)	
10/17/2019			0.0063
3/2/2020	0.0098		
3/3/2020		0.0018 (J)	0.0048
8/11/2020			0.0062
8/12/2020	0.0081	0.0018 (J)	
9/22/2020	0.0081		0.0049
9/23/2020		0.0015 (J)	
3/2/2021	0.0063	0.0012	0.005
9/10/2021	0.0075		0.0049
9/13/2021		0.0015	
1/24/2022	0.0084		
1/25/2022		0.0012	
1/26/2022			0.0054
9/14/2022	0.01		
9/15/2022		0.00088	
9/19/2022			0.0047
2/3/2023			0.0046
2/7/2023	0.0083	0.0007	
9/12/2023		0.0014	
9/13/2023	0.0084		
2/1/2024	0.0075	0.001	
9/6/2024	0.0071		
9/9/2024		0.00074	
9/11/2024			0.0049
Mean	0.007695	0.001931	0.005305
Std. Dev.	0.001592	0.001108	0.0006794
Upper Lim.	0.008599	0.002409	0.005672
Lower Lim.	0.006791	0.001282	0.004905

Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-106D	B-108D	B-120D
8/17/2020	0.00059 (J)					
9/25/2020	0.00027 (J)					
12/9/2020					<0.0005	
12/17/2020			0.00067 (J)	0.0002 (J)		
1/11/2021			0.0008 (J)			
1/12/2021		<0.0005				
3/4/2021			0.00081	0.00021 (J)	<0.0005	
3/5/2021		<0.0005				
3/8/2021	0.00027 (J)					
4/15/2021						0.001
9/10/2021			0.00083			
9/13/2021	0.00029 (J)	<0.0005		0.00024 (J)		
9/14/2021					<0.0005	0.0011
1/20/2022						0.00098
1/21/2022	0.00059					
1/24/2022					<0.0005	
1/25/2022				0.00012 (J)		
1/26/2022		0.00011 (J)				
1/27/2022			0.00091			
9/8/2022	0.00027 (J)					
9/15/2022			0.00091		<0.0005	
9/16/2022		<0.0005		<0.0005		
9/19/2022						0.0012
2/2/2023	<0.0005		0.00087			
2/3/2023		<0.0005				0.0011
2/7/2023				<0.0005	<0.0005	
9/6/2023	0.00035 (J)					
9/8/2023		<0.0005				
9/11/2023			0.00072	<0.0005		
9/12/2023						0.001
9/13/2023					<0.0005	
1/31/2024	0.00033 (J)					
2/1/2024					0.00018 (J)	
2/2/2024		<0.0005	0.00061	<0.0005		
2/5/2024						0.00097
9/5/2024	<0.0005					
9/9/2024				<0.0005	0.00015 (J)	0.00081
9/10/2024		<0.0005	0.00071			
Mean	0.000396	0.0004567	0.000784	0.0003633	0.0004256	0.00102
Std. Dev.	0.0001343	0.00013	0.0001028	0.0001651	0.0001479	0.000116
Upper Lim.	0.00059	0.0005	0.0008757	0.0005	0.0005	0.001143
Lower Lim.	0.00027	0.00011	0.0006923	0.00012	0.00015	0.000897

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-63	B-66	B-82	B-83	B-88
1/28/2019		<0.0005				
1/30/2019			<0.0005			
9/11/2019		<0.0005				
9/12/2019			<0.0005			
9/23/2019				0.00044 (J)		
10/21/2019			<0.0005	0.00035 (J)	0.00041 (J)	
10/22/2019		0.00014 (J)				
8/14/2020					0.00037 (J)	
8/17/2020	0.00029 (J)			0.00058 (J)		0.0018 (J)
9/25/2020					0.00026 (J)	0.00022 (J)
9/28/2020	0.00024 (J)			0.00066 (J)		
3/3/2021	0.00026 (J)					
3/4/2021					0.00032 (J)	
3/5/2021						0.0065
9/13/2021	0.00028 (J)					0.0013
9/14/2021		0.00025 (J)	<0.0005	0.0007		
9/16/2021					0.0003 (J)	
1/20/2022		<0.0005				
1/21/2022					0.0003 (J)	
1/25/2022			<0.0005	0.00072		
1/27/2022	0.00025 (J)					0.0036
9/13/2022					0.00031 (J)	
9/14/2022		0.00018 (J)				
9/16/2022	0.0003 (J)		<0.0005	0.00073		0.0019
2/2/2023		<0.0005				
2/3/2023					0.0003 (J)	
2/7/2023	0.00036 (J)		<0.0005	0.00081		0.0033
9/7/2023		0.00028 (J)				
9/8/2023	0.00034 (J)					
9/11/2023			0.00018 (J)	0.00058		
9/12/2023					0.00027 (J)	0.0026
2/1/2024		0.00014 (J)	0.00018 (J)	0.00072	0.00027 (J)	
2/5/2024	0.00036 (J)					0.0023
9/6/2024		<0.0005			0.00025 (J)	
9/9/2024			0.00066	0.00071		
9/10/2024						0.0035
9/11/2024	0.00034 (J)					
Mean	0.000302	0.000349	0.000452	0.0006364	0.0003055	0.002702
Std. Dev.	4.541E-05	0.0001648	0.0001518	0.0001378	4.803E-05	0.001699
Upper Lim.	0.0003425	0.0005	0.0005	0.0007512	0.0003455	0.004218
Lower Lim.	0.0002615	0.00014	0.00018	0.0005215	0.0002654	0.001186

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					0.0012	<0.0005
12/6/2016					0.0013	<0.0005
3/29/2017					0.0013	<0.0005
7/12/2017					0.0013	<0.0005
10/24/2017					0.0014	<0.0005
2/27/2018					0.001	<0.0005
11/6/2018					0.0012	<0.0005
8/27/2019					0.00077 (J)	0.00012 (J)
10/15/2019					0.00095 (J)	<0.0005
3/2/2020						<0.0005
3/3/2020					0.00095 (J)	
8/11/2020					0.00071 (J)	<0.0005
8/19/2020		0.00077 (J)				
9/22/2020						0.00016 (J)
9/24/2020					0.00055 (J)	
9/28/2020		0.00074 (J)				
3/2/2021						0.00013 (J)
3/4/2021					0.00088	
3/9/2021		0.00075 (J)				
9/9/2021						<0.0005
9/10/2021					0.00061	
9/15/2021	0.00096	0.00088	0.00056	0.0003 (J)		
1/25/2022						0.00016 (J)
1/26/2022	0.001	0.00079	0.00055	<0.0005	0.0007	
9/12/2022	0.0014	0.00084				
9/13/2022			0.00055	0.00031 (J)		
9/15/2022					0.00047 (J)	<0.0005
1/31/2023	0.0015	0.00089		<0.0005		
2/1/2023			0.00063			
2/2/2023					0.00059	
2/6/2023						0.00015 (J)
9/6/2023	0.0008	0.001	0.00059	0.00015 (J)		
9/8/2023						0.00014 (J)
9/11/2023					0.0006	
1/30/2024	0.0013	0.0008		<0.0005		
1/31/2024			0.00064			
2/1/2024						0.00017 (J)
2/2/2024					0.00039 (J)	
9/4/2024	0.0011	0.00078	0.00063			
9/5/2024				0.00085		
9/9/2024						<0.0005
9/11/2024					0.00047 (J)	
Mean	0.001151	0.000824	0.0005929	0.0004443	0.000867	0.0003765
Std. Dev.	0.0002553	8.017E-05	4.03E-05	0.0002234	0.000326	0.000173
Upper Lim.	0.001455	0.0008955	0.00064	0.0005993	0.001052	0.0005
Lower Lim.	0.0008482	0.0007525	0.00055	7.784E-05	0.0006819	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/1/2016	0.0004 (J)				0.0004 (J)	
9/6/2016		<0.0005	<0.0005			
9/7/2016				0.0003 (J)		
12/7/2016	0.0003 (J)	0.0002 (J)	9E-05 (J)		0.0004 (J)	
12/8/2016				0.0003 (J)		
3/29/2017	0.0003 (J)				0.0004 (J)	
3/30/2017		8E-05 (J)	9E-05 (J)	0.0003 (J)		0.0005 (J)
5/11/2017						0.0004 (J)
6/15/2017						0.0003 (J)
7/11/2017						0.0003 (J)
7/12/2017	0.0004 (J)	<0.0005	<0.0005	0.0002 (J)	0.0004 (J)	
10/24/2017						0.0003 (J)
10/25/2017	0.0004 (J)		<0.0005	0.0002 (J)	0.0004 (J)	
11/15/2017		<0.0005				
2/27/2018	<0.0005					<0.0005
2/28/2018		<0.0005	<0.0005	<0.001	<0.001	
7/11/2018	0.00033 (J)		<0.0005	0.00029 (J)	0.00039 (J)	0.00018 (J)
11/6/2018						<0.001 (J)
11/7/2018	<0.001 (J)	<0.0005	<0.001 (J)	<0.001	<0.001 (J)	
8/27/2019	0.00037 (J)			0.00033 (J)		0.00012 (J)
8/28/2019		<0.0005	<0.0005		0.00033 (J)	
9/17/2019	0.00035 (J)					
10/15/2019	0.00025 (J)					
10/16/2019		<0.0005			0.00034 (J)	
10/17/2019			<0.0005			0.00013 (J)
10/18/2019				0.00029 (J)		
3/2/2020	<0.0005					
3/3/2020		<0.0005	0.00012 (J)		0.00037 (J)	0.00014 (J)
3/4/2020				0.00028 (J)		
8/11/2020	0.00038 (J)				0.0003 (J)	<0.0005
8/12/2020		<0.0005				
8/13/2020			0.00013 (J)			
8/14/2020				0.00029 (J)		
9/22/2020	0.00017 (J)				0.00036 (J)	
9/23/2020		<0.0005	<0.0005			0.00013 (J)
9/24/2020				0.00024 (J)		
3/2/2021		<0.0005	<0.0005		0.00035 (J)	<0.0005
3/3/2021	0.00016 (J)			0.00023 (J)		
9/9/2021	<0.0005	<0.0005	<0.0005		0.00037 (J)	<0.0005
9/13/2021				0.00023 (J)		
1/20/2022						<0.0005
1/24/2022			<0.0005	0.00027 (J)		
1/25/2022	<0.0005	<0.0005			0.00041 (J)	
9/13/2022			<0.0005			
9/14/2022				0.00024 (J)	0.00032 (J)	
9/15/2022	0.00017 (J)	<0.0005				
9/20/2022						<0.0005
2/1/2023		<0.0005				
2/2/2023			<0.0005			
2/6/2023	<0.0005			0.00028 (J)	0.00029 (J)	<0.0005
9/8/2023		<0.0005	<0.0005		0.00034 (J)	
9/11/2023	<0.0005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/13/2023				0.00019 (J)		<0.0005
1/31/2024		<0.0005				
2/1/2024					0.00029 (J)	<0.0005
2/2/2024	<0.0005					
2/5/2024			<0.0005			
2/6/2024				0.00027 (J)		
9/5/2024	0.00014 (J)	<0.0005	0.0001 (J)		0.0003 (J)	
9/9/2024						<0.0005
9/10/2024				0.00024 (J)		
Mean	0.0003918	0.000464	0.00043	0.0002843	0.0003695	0.0004048
Std. Dev.	0.000184	0.0001125	0.000215	8.103E-05	5.886E-05	0.0002049
Upper Lim.	0.0003085	0.0005	0.0005	0.0003159	0.000402	0.0005
Lower Lim.	0.0002035	0.0002	0.00013	0.00024	0.0003371	0.00018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/2/2016	0.0023	0.0006 (J)	0.0003 (J)			
9/7/2016						0.0007 (J)
12/7/2016	0.0023					
12/8/2016		0.0006 (J)	0.0004 (J)			0.0003 (J)
3/28/2017					0.0006 (J)	
3/29/2017	0.0021		0.0004 (J)			
3/30/2017		0.0008 (J)		0.0002 (J)		
3/31/2017						0.0009 (J)
5/12/2017				0.0003 (J)	0.0006 (J)	
6/15/2017				0.0002 (J)	0.0005 (J)	
7/11/2017					0.0006 (J)	
7/12/2017	0.0021	0.0006 (J)		0.0002 (J)		
7/13/2017			0.0005 (J)			0.0008 (J)
10/24/2017					0.0007 (J)	
10/25/2017	0.002	0.0005 (J)	0.0007 (J)			0.0005 (J)
10/26/2017				0.0003 (J)		
2/27/2018					<0.001	
2/28/2018	0.0018	<0.0005	<0.001			<0.001
3/1/2018				<0.0005		
7/11/2018	0.0018	0.00054 (J)				0.0024
7/12/2018			0.00091 (J)	0.00028 (J)		
11/6/2018					<0.001 (J)	
11/7/2018	0.0018	<0.001 (J)	<0.001 (J)			<0.001 (J)
11/8/2018				<0.001 (J)		
8/27/2019					0.00072 (J)	
8/28/2019						0.0015 (J)
8/29/2019	0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)		
10/15/2019					0.00077 (J)	
10/17/2019	0.0017 (J)	0.0006 (J)				0.00058 (J)
10/18/2019			0.00056 (J)	0.00022 (J)		
3/2/2020					0.00088 (J)	
3/3/2020		0.00063 (J)	0.00061 (J)			
3/4/2020	0.0026			0.00024 (J)		0.00037 (J)
8/12/2020					0.0008 (J)	
8/13/2020	0.0021 (J)			0.00027 (J)		0.0013 (J)
8/14/2020		0.00054 (J)	0.00057 (J)			
9/22/2020	0.0014 (J)				0.00065 (J)	0.0007 (J)
9/24/2020		0.00073 (J)	0.00058 (J)	0.00018 (J)		
3/1/2021					0.00085	
3/2/2021	0.0025					
3/3/2021		0.00044 (J)	0.0005	0.00015 (J)		0.00038 (J)
9/9/2021		0.00012 (J)		0.00019 (J)		
9/10/2021	0.0012		0.00061		0.0009	
9/13/2021						0.00042 (J)
1/20/2022		<0.0005	0.00052	0.00012 (J)		0.00038 (J)
1/21/2022	0.0028					
1/24/2022					0.00098	
9/13/2022						0.00069
9/15/2022	0.0021	0.00029 (J)				
9/16/2022			0.00065			
9/19/2022					0.00091	
9/20/2022				0.00017 (J)		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
2/1/2023						0.00075
2/3/2023					0.001	
2/6/2023			0.00045 (J)	0.00021 (J)		
2/7/2023	0.0027	0.00059				
9/11/2023	0.0038	0.00054	0.0006	<0.0005		
9/13/2023					0.00099	0.00068
1/30/2024						0.001
1/31/2024		0.00057	0.00055	0.00012 (J)		
2/1/2024	0.003				0.00099	
9/4/2024		0.00077				
9/5/2024	0.0045			<0.0005		0.00098
9/6/2024					0.00082	
9/9/2024			0.0005 (J)			
Mean	0.002314	0.0005395	0.0005448	0.000289	0.000763	0.0007776
Std. Dev.	0.0007611	0.0001886	0.0001233	0.0001992	0.0001745	0.0004833
Upper Lim.	0.002734	0.0006436	0.0006128	0.0002191	0.0008621	0.0009646
Lower Lim.	0.001894	0.0004355	0.0004768	0.0001602	0.0006639	0.0005169

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016				0.0019	0.0004 (J)
8/31/2016			0.0002 (J)		
9/1/2016	0.0017	0.0013			
12/6/2016			0.0004 (J)	0.0025	0.0005 (J)
12/8/2016	0.0002 (J)	0.0042			
3/28/2017			0.0002 (J)		0.0005 (J)
3/29/2017				0.0024	
3/30/2017		0.0089			
3/31/2017	0.002				
7/11/2017			0.0003 (J)	0.0021	0.0005 (J)
7/13/2017	0.0017	0.0033			
10/24/2017				0.0029	0.0006 (J)
10/25/2017			0.0006 (J)		
10/26/2017	0.0015	0.0032			
2/27/2018			<0.001	0.0029	<0.001
3/1/2018	0.0025				
3/2/2018		0.0049			
7/11/2018					0.00067 (J)
7/12/2018	0.0021	0.0032			
11/6/2018			<0.001 (J)	0.0027	<0.001 (J)
11/7/2018	0.0016	0.0031			
8/27/2019			0.00082 (J)		0.00071 (J)
8/28/2019				0.0022 (J)	
8/29/2019	0.0021 (J)	0.003			
10/16/2019			0.00069 (J)	0.0022 (J)	
10/17/2019	0.0033				0.00064 (J)
10/18/2019		0.0028			
3/2/2020			0.00089 (J)		
3/3/2020				0.002 (J)	0.00059 (J)
3/4/2020	0.0017 (J)	0.0036			
8/11/2020					0.00059 (J)
8/12/2020	0.001 (J)		0.00079 (J)	0.0021 (J)	
8/13/2020		0.0028			
9/22/2020			0.00072 (J)		0.00059 (J)
9/23/2020	0.0013 (J)	0.0025		0.0018 (J)	
3/2/2021			0.00075	0.0017	0.00057
3/3/2021	0.0016	0.0033			
9/10/2021	0.0014	0.0028	0.00093		0.00053
9/13/2021				0.002	
1/21/2022	0.0019				
1/24/2022		0.0029	0.00094		
1/25/2022				0.0016	
1/26/2022					0.00059
9/13/2022	0.0011	0.0026			
9/14/2022			0.00087		
9/15/2022				0.0011	
9/19/2022					0.00076
2/3/2023	0.0013	0.0024			0.00053
2/7/2023			0.0012	0.00087	
9/12/2023	0.00083			0.0015	
9/13/2023		0.0026	0.0013		
2/1/2024			0.0012	0.0011	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/5/2024	0.0011	0.0022			
9/5/2024	0.0031				
9/6/2024			0.001		
9/9/2024				0.00068	
9/10/2024		0.0022			
9/11/2024					0.00058
Mean	0.001668	0.003229	0.00074	0.001913	0.0005711
Std. Dev.	0.0007168	0.001494	0.0003211	0.0006348	8.491E-05
Upper Lim.	0.002064	0.003675	0.0009223	0.002273	0.0006208
Lower Lim.	0.001273	0.002463	0.0005577	0.001552	0.0005213

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-104D	B-106D	B-56	B-62
1/30/2019						<0.005
9/11/2019						<0.005
10/21/2019						0.00098 (J)
8/13/2020						<0.005
8/17/2020	<0.005				0.0014 (J)	
9/24/2020						<0.005
9/25/2020	0.00094 (J)					
9/28/2020					<0.005	
12/9/2020			0.0011 (J)			
12/17/2020				<0.005		
1/12/2021		<0.005	<0.005			
3/3/2021					0.00059 (J)	
3/4/2021			<0.005	<0.005		
3/5/2021		<0.005				
3/8/2021	0.00057 (J)					
3/12/2021						<0.005
9/9/2021						<0.005
9/13/2021	<0.005	0.0014 (J)		<0.005	<0.005	
9/14/2021			<0.005			
1/20/2022						<0.005
1/21/2022	<0.005					
1/24/2022			<0.005			
1/25/2022				<0.005		
1/26/2022		<0.005				
1/27/2022					0.0014 (J)	
9/8/2022	<0.005					<0.005
9/13/2022			<0.005			
9/16/2022		<0.005		<0.005	<0.005	
2/2/2023	<0.005					<0.005
2/3/2023		<0.005	<0.005			
2/7/2023				0.0013 (J)	<0.005	
9/6/2023	<0.005					
9/7/2023						<0.005
9/8/2023		<0.005			<0.005	
9/11/2023				<0.005		
9/13/2023			<0.005			
1/31/2024	<0.005					
2/1/2024						<0.005
2/2/2024		<0.005		<0.005		
2/5/2024			<0.005		<0.005	
9/5/2024	<0.005					
9/9/2024				<0.005		<0.005
9/10/2024		<0.005	<0.005			
9/11/2024					<0.005	
Mean	0.004151	0.0046	0.00461	0.004589	0.003839	0.004691
Std. Dev.	0.001792	0.0012	0.001233	0.001233	0.001882	0.001115
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00094	0.0014	0.005	0.0013	0.0014	0.00098

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-77	B-82	B-83	B-88	B-93
1/28/2019	<0.005					
9/11/2019	<0.005					
9/18/2019		0.00068 (J)				
9/23/2019			0.0011 (J)			
10/21/2019			<0.005	0.0017 (J)		
10/22/2019	0.00064 (J)					
10/24/2019		<0.005				
8/13/2020		0.0021 (J)				
8/14/2020				0.005 (J)		
8/17/2020			<0.005		0.0014 (J)	
8/19/2020						0.00057 (J)
9/24/2020		0.0007 (J)				
9/25/2020				0.0051 (J)	0.00085 (J)	
9/28/2020			<0.005			0.00066 (J)
3/4/2021		0.00098 (J)		0.0049 (J)		
3/5/2021					0.0017 (J)	
3/9/2021						<0.005
9/13/2021					<0.005	
9/14/2021	<0.005	<0.005	<0.005			
9/15/2021						<0.005
9/16/2021				0.003 (J)		
1/20/2022	<0.005	<0.005				
1/21/2022				0.0034 (J)		
1/25/2022			<0.005			
1/26/2022						0.0011 (J)
1/27/2022					<0.005	
9/12/2022						<0.005
9/13/2022		<0.005		0.0022 (J)		
9/14/2022	<0.005					
9/16/2022			<0.005		<0.005	
1/31/2023						<0.005
2/2/2023	<0.005					
2/3/2023				0.0026 (J)		
2/6/2023		<0.005				
2/7/2023			0.0013 (J)		<0.005	
9/6/2023						<0.005
9/7/2023	0.0013 (J)					
9/11/2023			<0.005			
9/12/2023		<0.005		0.0022 (J)	<0.005	
1/30/2024						0.0024 (J)
2/1/2024	<0.005		<0.005	0.0023 (J)		
2/5/2024		<0.005			<0.005	
9/4/2024						<0.005
9/6/2024	<0.005			0.0025 (J)		
9/9/2024			<0.005			
9/10/2024					<0.005	
9/11/2024		<0.005				
Mean	0.004194	0.003705	0.004309	0.003173	0.003895	0.003473
Std. Dev.	0.001706	0.001945	0.001538	0.001254	0.001791	0.002031
Upper Lim.	0.005	0.005	0.005	0.004143	0.005	0.005
Lower Lim.	0.0013	0.0007	0.0013	0.002153	0.0014	0.00066

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15
8/31/2016		<0.005	<0.005			
9/1/2016				<0.005		
9/6/2016					<0.005	<0.005
12/6/2016		<0.005	<0.005			
12/7/2016				<0.005	<0.005	<0.005
3/29/2017		0.0008 (J)	<0.005	<0.005		
3/30/2017					0.0009 (J)	0.0005 (J)
7/12/2017		0.0006 (J)	<0.005	<0.005	<0.005	<0.005
10/24/2017		0.0007 (J)	<0.005			
10/25/2017				<0.005		<0.005
11/15/2017					<0.005	
2/27/2018		<0.005	<0.005	<0.005		
2/28/2018					<0.005	<0.005
7/11/2018				<0.005		<0.005
11/6/2018		<0.005	<0.005			
11/7/2018				<0.005	<0.005	<0.01 (J)
8/27/2019		0.00083 (J)	0.0006 (J)	<0.005		
8/28/2019					<0.005	<0.005
9/17/2019				<0.005		
10/15/2019		0.00078 (J)	<0.005	<0.005		
10/16/2019					<0.005	
10/17/2019						0.00058 (J)
3/2/2020			0.0006 (J)	<0.005		
3/3/2020		0.00092 (J)			0.00066 (J)	0.00046 (J)
8/11/2020		0.00097 (J)	0.00061 (J)	0.00094 (J)		
8/12/2020					0.00074 (J)	
8/13/2020						0.0048 (J)
9/22/2020			0.00058 (J)	<0.005		
9/23/2020					0.00059 (J)	<0.005
9/24/2020		0.001 (J)				
3/2/2021			<0.005		<0.005	<0.005
3/3/2021				0.00099 (J)		
3/4/2021		0.0009 (J)				
9/9/2021			<0.005	<0.005	<0.005	<0.005
9/10/2021		<0.005				
9/15/2021	<0.005					
1/24/2022						<0.005
1/25/2022			<0.005	<0.005	<0.005	
1/26/2022	0.0013 (J)	0.0011 (J)				
9/13/2022	<0.005					<0.005
9/15/2022		<0.005	<0.005	<0.005	<0.005	
1/31/2023	0.0014 (J)					
2/1/2023					<0.005	
2/2/2023		0.0013 (J)				<0.005
2/6/2023			<0.005	<0.005		
9/6/2023	<0.005					
9/8/2023			<0.005		<0.005	<0.005
9/11/2023		0.0016 (J)		<0.005		
1/30/2024	<0.005					
1/31/2024					<0.005	
2/1/2024			<0.005			
2/2/2024		<0.005		<0.005		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15
2/5/2024						<0.005
9/5/2024	<0.005			<0.005	<0.005	<0.005
9/9/2024			<0.005			
9/11/2024		0.0038 (J)				
Mean	0.003957	0.002515	0.004119	0.004633	0.004144	0.004588
Std. Dev.	0.001781	0.001984	0.001807	0.001187	0.001756	0.002023
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.01
Lower Lim.	0.0013	0.00083	0.00061	0.00099	0.0009	0.0048

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0031 (J)				
9/2/2016				0.0017 (J)	<0.005	0.0012 (J)
9/7/2016	0.0026 (J)					
12/7/2016		<0.01		<0.005		
12/8/2016	0.0025 (J)				<0.005	<0.005
3/29/2017		0.0025 (J)		0.0016 (J)		<0.005
3/30/2017	0.0026 (J)		0.0005 (J)		0.0005 (J)	
5/11/2017			0.0005 (J)			
6/15/2017			<0.005			
7/11/2017			<0.005			
7/12/2017	0.0022 (J)	0.0023 (J)		<0.005	0.0006 (J)	
7/13/2017						<0.005
10/24/2017			<0.005			
10/25/2017	0.0024 (J)	0.0024 (J)		0.0015 (J)	<0.005	<0.005
2/27/2018			<0.005			
2/28/2018	<0.01	<0.01		<0.005	<0.005	<0.005
7/11/2018	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	
7/12/2018						<0.005
11/6/2018			<0.005			
11/7/2018	<0.01	<0.01 (J)		<0.01 (J)	<0.005	<0.005
8/27/2019	0.0031 (J)		0.0004 (J)			
8/28/2019		0.0028 (J)				
8/29/2019				0.0017 (J)	0.00041 (J)	<0.005
10/16/2019		0.0024 (J)				
10/17/2019			0.00046 (J)	0.0015 (J)	<0.005	
10/18/2019	0.0027 (J)					<0.005
3/3/2020		0.0028 (J)	<0.005		0.00048 (J)	<0.005
3/4/2020	0.0035 (J)			0.0032 (J)		
8/11/2020		0.0024 (J)	0.00067 (J)			
8/13/2020				0.0023 (J)		
8/14/2020	0.0033 (J)				<0.005	<0.005
9/22/2020		0.003 (J)		0.0013 (J)		
9/23/2020			<0.005			
9/24/2020	0.0029 (J)				0.00096 (J)	<0.005
3/2/2021		0.0024 (J)	0.00064 (J)	0.0022 (J)		
3/3/2021	0.0028 (J)				0.002 (J)	<0.005
9/9/2021		0.003 (J)	<0.005		<0.005	
9/10/2021				<0.005		<0.005
9/13/2021	0.0027 (J)					
1/20/2022			<0.005		<0.005	<0.005
1/21/2022				0.0021 (J)		
1/24/2022	0.0029 (J)					
1/25/2022		0.0029 (J)				
9/14/2022	0.0023 (J)	0.0024 (J)				
9/15/2022				0.0014 (J)	<0.005	
9/16/2022						<0.005
9/20/2022			<0.005			
2/6/2023	0.0026 (J)	0.0022 (J)	<0.005			<0.005
2/7/2023				0.0023 (J)	<0.005	
9/8/2023		0.0021 (J)				
9/11/2023				0.0026 (J)	<0.005	<0.005
9/13/2023	0.0027 (J)		<0.005			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
1/31/2024					<0.005	<0.005
2/1/2024		0.0024 (J)	<0.005	0.0021 (J)		
2/6/2024	0.0029 (J)					
9/4/2024					<0.005	
9/5/2024		0.0024 (J)		0.0023 (J)		
9/9/2024			<0.005			<0.005
9/10/2024	0.0033 (J)					
Mean	0.002971	0.00289	0.003722	0.003086	0.003807	0.004819
Std. Dev.	0.0007531	0.0009273	0.002071	0.002098	0.001956	0.0008292
Upper Lim.	0.0033	0.003	0.005	0.002036	0.005	0.005
Lower Lim.	0.0025	0.0023	0.00064	0.001512	0.00096	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						<0.005
9/1/2016				<0.005	<0.005	
9/7/2016			<0.005			
12/6/2016						<0.005
12/8/2016			<0.005	<0.005	<0.005	
3/28/2017		0.0005 (J)				<0.005
3/30/2017	0.0012 (J)				<0.005	
3/31/2017			0.001 (J)	0.0007 (J)		
5/12/2017	0.0004 (J)	<0.005				
6/15/2017	0.0005 (J)	<0.005				
7/11/2017		<0.005				<0.005
7/12/2017	0.0007 (J)					
7/13/2017			0.0008 (J)	<0.005	0.0007 (J)	
10/24/2017		<0.005				
10/25/2017			0.0005 (J)			<0.005
10/26/2017	0.0007 (J)			<0.005	<0.005	
2/27/2018		<0.005				<0.005
2/28/2018			<0.005			
3/1/2018	<0.005			<0.005		
3/2/2018					<0.005	
7/11/2018			<0.005			
7/12/2018	<0.005			<0.005	<0.005	
11/6/2018		<0.005				<0.005
11/7/2018			<0.005	<0.005	<0.005	
11/8/2018	<0.005					
8/27/2019		<0.005				<0.005
8/28/2019			<0.005			
8/29/2019	<0.005			<0.005	<0.005	
10/15/2019		<0.005				
10/16/2019						<0.005
10/17/2019			0.00041 (J)	<0.005		
10/18/2019	0.00041 (J)				<0.005	
3/2/2020		<0.005				0.00045 (J)
3/4/2020	0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)	
8/12/2020		<0.005		<0.005		<0.005
8/13/2020	0.00085 (J)		0.0021 (J)		<0.005	
9/22/2020		<0.005	0.001 (J)			<0.005
9/23/2020				<0.005	<0.005	
9/24/2020	0.00084 (J)					
3/1/2021		<0.005				
3/2/2021						<0.005
3/3/2021	0.0014 (J)		<0.005	<0.005	<0.005	
9/9/2021	<0.005					
9/10/2021		<0.005		<0.005	<0.005	<0.005
9/13/2021			<0.005			
1/20/2022	<0.005		<0.005			
1/21/2022				<0.005		
1/24/2022		<0.005			<0.005	<0.005
9/13/2022			<0.005	<0.005	<0.005	
9/14/2022						<0.005
9/19/2022		<0.005				
9/20/2022	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
2/1/2023			<0.005			
2/3/2023		<0.005		<0.005	<0.005	
2/6/2023	<0.005					
2/7/2023						<0.005
9/11/2023	<0.005					
9/12/2023				<0.005		
9/13/2023		<0.005	<0.005		<0.005	<0.005
1/30/2024			<0.005			
1/31/2024	<0.005					
2/1/2024		<0.005				<0.005
2/5/2024				<0.005	<0.005	
9/5/2024	<0.005		<0.005	<0.005		
9/6/2024		<0.005				<0.005
9/10/2024					<0.005	
Mean	0.002991	0.004775	0.00363	0.004795	0.004576	0.004772
Std. Dev.	0.00217	0.001006	0.002012	0.0009383	0.001339	0.001017
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0007	0.0005	0.001	0.0007	0.0007	0.00045

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.005	<0.005
12/6/2016	<0.005	<0.005
3/28/2017		0.001 (J)
3/29/2017	0.0004 (J)	
7/11/2017	<0.005	<0.005
10/24/2017	<0.005	<0.005
2/27/2018	<0.005	<0.005
7/11/2018		<0.005
11/6/2018	<0.005	<0.005
8/27/2019		0.00048 (J)
8/28/2019	<0.005	
10/16/2019	0.0013 (J)	
10/17/2019		0.00051 (J)
3/3/2020	0.00061 (J)	0.0057 (J)
8/11/2020		0.00061 (J)
8/12/2020	0.0028 (J)	
9/22/2020		<0.005
9/23/2020	0.00086 (J)	
3/2/2021	0.0015 (J)	0.00059 (J)
9/10/2021		<0.005
9/13/2021	<0.005	
1/25/2022	<0.005	
1/26/2022		0.0029 (J)
9/15/2022	<0.005	
9/19/2022		<0.005
2/3/2023		0.0013 (J)
2/7/2023	<0.005	
9/12/2023	<0.005	
2/1/2024	<0.005	
9/9/2024	<0.005	
9/11/2024		<0.005
Mean	0.003873	0.003584
Std. Dev.	0.001821	0.002052
Upper Lim.	0.005	0.005
Lower Lim.	0.0015	0.00061

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
7/23/2020	0.086					
8/3/2020	0.087					
8/17/2020	0.077					
9/25/2020	0.034					
12/9/2020				0.17		0.0017 (J)
12/17/2020			0.014		0.00087 (J)	
1/11/2021			0.015			
1/12/2021		0.0034 (J)		0.19		
3/4/2021			0.014	0.19	0.0007 (J)	0.0012 (J)
3/5/2021		0.0023 (J)				
3/8/2021	0.029					
9/10/2021			0.013			
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)
9/14/2021				0.1		
1/21/2022	0.034					
1/24/2022				0.1		0.00088 (J)
1/25/2022					<0.005	
1/26/2022		0.0028 (J)				
1/27/2022			0.014			
9/8/2022	0.028					
9/13/2022				0.14		
9/14/2022						0.00061 (J)
9/15/2022			0.012			
9/16/2022		0.0035 (J)			<0.005	
2/2/2023	<0.005		0.011			
2/3/2023		0.0022 (J)		0.17		
2/6/2023						0.0007 (J)
2/7/2023					<0.005	
9/6/2023	0.031					
9/8/2023		0.0032 (J)				
9/11/2023			0.01		<0.005	
9/12/2023						0.001 (J)
9/13/2023				0.18		
1/31/2024	0.065					
2/1/2024						0.00088 (J)
2/2/2024		0.0026 (J)	0.0088		<0.005	
2/5/2024				0.16		
9/5/2024	0.031					
9/9/2024					<0.005	0.00087 (J)
9/10/2024		0.0072	0.01	0.1		
Mean	0.04496	0.003356	0.01218	0.15	0.00357	0.0009633
Std. Dev.	0.02689	0.001512	0.002132	0.03742	0.002146	0.000323
Upper Lim.	0.06544	0.0072	0.01408	0.1824	0.005	0.001252
Lower Lim.	0.02158	0.0022	0.01028	0.1194	0.00056	0.0006766

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	B-56	B-62
1/30/2019						<0.005
9/11/2019						0.0003 (J)
10/21/2019						0.00031 (J)
8/13/2020						<0.005
8/17/2020					0.042	
9/24/2020						<0.005
9/28/2020					0.042	
12/9/2020	0.0048 (J)	0.00076 (J)				
1/12/2021		0.0007 (J)				
3/3/2021					0.05	
3/4/2021	0.0017 (J)					
3/5/2021		0.00052 (J)				
3/12/2021						<0.005
4/15/2021			0.017			
9/9/2021						<0.005
9/13/2021					0.047	
9/14/2021	0.0017 (J)	<0.005	0.0055			
1/20/2022			0.0045 (J)			<0.005
1/24/2022	0.00061 (J)	0.00041 (J)				
1/27/2022					0.052	
6/6/2022				0.006		
9/8/2022						<0.005
9/9/2022						<0.005
9/14/2022		<0.005				
9/15/2022	0.001 (J)					
9/16/2022					0.051	
9/19/2022			0.0027 (J)			
2/2/2023						<0.005
2/3/2023			0.0025 (J)			
2/6/2023				0.007		
2/7/2023	0.001 (J)	0.0004 (J)			0.059	
9/7/2023				0.011		<0.005
9/8/2023					0.057	
9/12/2023			0.0022 (J)			
9/13/2023	0.00045 (J)	<0.005				
2/1/2024	0.12			0.0087		<0.005
2/5/2024		<0.005	0.0018 (J)		0.07	
9/9/2024	0.0037 (J)	0.0004 (J)	0.0017 (J)			<0.005
9/10/2024				0.0065		
9/11/2024					0.069	
Mean	0.015	0.002319	0.004738	0.00784	0.0539	0.004329
Std. Dev.	0.0394	0.002311	0.005133	0.002038	0.009893	0.001705
Upper Lim.	0.12	0.005	0.007734	0.01125	0.06273	0.005
Lower Lim.	0.00045	0.0004	0.00152	0.004425	0.04507	0.00031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
1/28/2019	0.053					
1/30/2019		<0.01				
9/11/2019	0.043					
9/12/2019		0.006				
9/18/2019			0.0031 (J)			
9/23/2019				0.0038 (J)		
10/21/2019		0.0074		0.0089	0.018	
10/22/2019	0.046					
10/24/2019			0.0021 (J)			
11/22/2019						0.018 (J)
8/13/2020			0.0011 (J)			
8/14/2020					0.021	
8/17/2020				0.0028 (J)		0.0031 (J)
9/24/2020			0.0004 (J)			
9/25/2020					0.0073	0.0015 (J)
9/28/2020				0.0053		
3/4/2021			0.0017 (J)		0.0099	
3/5/2021						0.022
3/12/2021	0.046	0.01		0.0021 (J)		
9/13/2021						0.0018 (J)
9/14/2021	0.037	0.012	<0.005	0.0015 (J)		
9/16/2021					0.011	
1/20/2022	0.039		<0.005			
1/21/2022					0.011	
1/25/2022		0.013		0.0039 (J)		
1/27/2022						0.0038 (J)
9/13/2022			<0.005 (D)		0.012	
9/14/2022	0.0465 (D)					
9/16/2022		0.012 (D)		0.00175 (JD)		0.00135 (JD)
2/2/2023	0.027					
2/3/2023					0.012	
2/6/2023			<0.005			
2/7/2023		0.015		0.0028 (J)		0.0031 (J)
9/7/2023	0.047					
9/11/2023		0.02		0.0024 (J)		
9/12/2023			<0.005		0.015	0.0022 (J)
2/1/2024	0.03	0.019		0.0021 (J)	0.017	
2/5/2024			0.00032 (J)			0.0018 (J)
9/6/2024	0.032				0.013	
9/9/2024		0.032		0.00059 (J)		
9/10/2024						0.008
9/11/2024			<0.005			
Mean	0.04059	0.01376	0.003227	0.003162	0.01338	0.006059
Std. Dev.	0.008249	0.007739	0.001987	0.002193	0.003994	0.007192
Upper Lim.	0.04746	0.02021	0.005	0.004571	0.01671	0.00828
Lower Lim.	0.03372	0.007315	0.0004	0.001559	0.01005	0.001634

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					0.193	<0.01
12/6/2016					0.2	0.0006 (J)
3/29/2017					0.184	<0.01
7/12/2017					0.177	<0.01
10/24/2017					0.175	<0.01
2/27/2018					0.2	<0.01
11/6/2018					0.2	<0.01
8/27/2019					0.13	0.00076 (J)
10/15/2019					0.17	0.0006 (J)
12/19/2019		0.066				
2/17/2020				<0.005		
3/2/2020						0.00078 (J)
3/3/2020					0.18	
8/11/2020					0.11	0.00055 (J)
8/19/2020		0.068				
9/22/2020						0.00098 (J)
9/24/2020					0.086	
9/28/2020		0.064				
3/2/2021						0.00065 (J)
3/4/2021					0.071	
3/9/2021		0.061				
3/15/2021				<0.005		
9/9/2021						0.00081 (J)
9/10/2021					0.076	
9/15/2021	0.063	0.062	0.003 (J)	0.0048 (J)		
1/25/2022						0.0015 (J)
1/26/2022	0.071	0.064	0.003 (J)	<0.005	0.099	
9/12/2022	0.073	0.057				
9/13/2022			0.0029 (J)	0.00063 (J)		
9/15/2022					0.055	0.001 (J)
1/31/2023	0.08	0.067		<0.005		
2/1/2023			0.0033 (J)			
2/2/2023					0.11	
2/6/2023						0.0013 (J)
9/6/2023	0.034	0.041	0.0029 (J)	<0.005		
9/8/2023						0.0011 (J)
9/11/2023					0.11	
1/30/2024	0.06	0.031		<0.005		
1/31/2024			0.0032 (J)			
2/1/2024						0.00082 (J)
2/2/2024					0.064	
9/4/2024	0.061	0.034	0.0032 (J)			
9/5/2024				0.0013 (J)		
9/9/2024						0.00061 (J)
9/11/2024					0.099	
Mean	0.06314	0.05591	0.003071	0.004081	0.1345	0.003603
Std. Dev.	0.01476	0.01374	0.0001604	0.001776	0.05179	0.004303
Upper Lim.	0.08067	0.06595	0.003262	0.005	0.1639	0.01
Lower Lim.	0.04561	0.04997	0.002881	0.00063	0.105	0.00065

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/1/2016	0.0021 (J)				0.0553	
9/6/2016		<0.005	0.0042 (J)			
9/7/2016				0.0247		
12/7/2016	0.0026 (J)	<0.005	0.0028 (J)		0.0561	
12/8/2016				0.029		
3/29/2017	0.0026 (J)				0.0534	
3/30/2017		0.0005 (J)	0.0024 (J)	0.0283		0.0255
5/11/2017						0.0284
6/15/2017						0.0238
7/11/2017						0.0238
7/12/2017	0.0033 (J)	0.0004 (J)	0.002 (J)	0.023	0.0489	
10/24/2017						0.0292
10/25/2017	0.0021 (J)		0.0019 (J)	0.0259	0.0514	
11/15/2017		<0.005				
2/27/2018	<0.01					0.042
2/28/2018		<0.005	<0.01	0.02	0.0511	
7/11/2018	0.002 (J)		0.0018 (J)	0.025	0.051	0.02
11/6/2018						0.024
11/7/2018	<0.01 (J)	<0.005	0.025	<0.01 (J)	0.048	
8/27/2019	0.0021 (J)			0.031		0.0088
8/28/2019		<0.005	0.0015 (J)		0.048	
9/17/2019	0.0079					
10/15/2019	0.0058					
10/16/2019		<0.005			0.046	
10/17/2019			0.0018 (J)			0.0084
10/18/2019				0.023		
3/2/2020	0.029					
3/3/2020		<0.005	0.0018 (J)		0.054	0.0073
3/4/2020				0.023		
8/11/2020	0.006				0.049	0.0064
8/12/2020		<0.005				
8/13/2020			0.0024 (J)			
8/14/2020				0.026		
9/22/2020	0.013				0.051	
9/23/2020		0.00038 (J)	0.0018 (J)			0.0062
9/24/2020				0.028		
3/2/2021		<0.005	0.0013 (J)		0.051	0.0055
3/3/2021	0.01			0.016		
9/9/2021	0.034	<0.005	0.0016 (J)		0.055	0.0048 (J)
9/13/2021				0.019		
1/20/2022						0.004 (J)
1/24/2022			0.0015 (J)	0.019		
1/25/2022	0.018	<0.005			0.054	
9/13/2022			0.0016 (J)			
9/14/2022				0.016	0.052	
9/15/2022	0.025	<0.005				
9/20/2022						0.0028 (J)
2/1/2023		<0.005				
2/2/2023			0.0017 (J)			
2/6/2023	0.016			0.017	0.055	0.0024 (J)
9/8/2023		<0.005	0.0018 (J)		0.051	
9/11/2023	0.017					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/13/2023				0.02		0.0024 (J)
1/31/2024		<0.005				
2/1/2024					0.056	0.0027 (J)
2/2/2024	0.015					
2/5/2024			0.0019 (J)			
2/6/2024				0.018		
9/5/2024	0.022	<0.005	0.002 (J)		0.052	
9/9/2024						0.0021 (J)
9/10/2024				0.016		
Mean	0.01116	0.004314	0.003229	0.02157	0.05187	0.01336
Std. Dev.	0.009644	0.001676	0.005068	0.005984	0.002855	0.01187
Upper Lim.	0.01445	0.005	0.0024	0.02487	0.05344	0.01753
Lower Lim.	0.005184	0.0005	0.0016	0.01827	0.05029	0.005858

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/2/2016	0.497	0.0085 (J)	0.0102			
9/7/2016						0.0695
12/7/2016	0.614					
12/8/2016		0.0095 (J)	0.0079 (J)			0.0652
3/28/2017					0.0018 (J)	
3/29/2017	0.443		0.0097 (J)			
3/30/2017		0.0076 (J)		<0.005		
3/31/2017						0.0524
5/12/2017				<0.005	0.0015 (J)	
6/15/2017				0.0003 (J)	0.0015 (J)	
7/11/2017					0.0015 (J)	
7/12/2017	0.538	0.0092 (J)		<0.005		
7/13/2017			0.0106			0.0481
10/24/2017					0.0017 (J)	
10/25/2017	0.432	0.0092 (J)	0.0094 (J)			0.0435
10/26/2017				<0.005		
2/27/2018					<0.01	
2/28/2018	0.459	<0.01	<0.01			0.0167
3/1/2018				<0.005		
7/11/2018	0.47	0.0097 (J)				0.019
7/12/2018			0.011	<0.005		
11/6/2018					<0.01 (J)	
11/7/2018	0.42	<0.01 (J)	<0.01 (J)			0.02
11/8/2018				<0.01 (J)		
8/27/2019					0.0018 (J)	
8/28/2019						0.029
8/29/2019	0.66	0.01	0.0094	0.00036 (J)		
10/15/2019					0.0018 (J)	
10/17/2019	0.57	0.01				0.03
10/18/2019			0.0084	<0.005		
3/2/2020					0.0021 (J)	
3/3/2020		0.01	0.0098			
3/4/2020	0.84			0.00043 (J)		0.014
8/12/2020					0.0018 (J)	
8/13/2020	0.73			0.00048 (J)		0.025
8/14/2020		0.0098	0.0087			
9/22/2020	0.47				0.0014 (J)	0.014
9/24/2020		0.01	0.01	<0.005		
3/1/2021					0.002 (J)	
3/2/2021	0.77					
3/3/2021		0.0087	0.0078	0.00039 (J)		0.0087
9/9/2021		0.0096		0.00049 (J)		
9/10/2021	0.45		0.0076		0.0019 (J)	
9/13/2021						0.008
1/20/2022		0.0076	0.0075	0.00058 (J)		0.0056
1/21/2022	0.95					
1/24/2022					0.0019 (J)	
9/13/2022						0.0069
9/15/2022	0.75	0.0081				
9/16/2022			0.0098			
9/19/2022					0.0018 (J)	
9/20/2022				0.00053 (J)		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
2/1/2023						0.0068
2/3/2023					0.0018 (J)	
2/6/2023			0.0058	0.00064 (J)		
2/7/2023	1	0.0088				
9/11/2023	1.4	0.0097	0.0074	0.00074 (J)		
9/13/2023					0.0018 (J)	0.008
1/30/2024						0.0076
1/31/2024		0.0097	0.0067	0.0007 (J)		
2/1/2024	1.3				0.0016 (J)	
9/4/2024		0.0087				
9/5/2024	1.9			0.00088 (J)		0.01
9/6/2024					0.0014 (J)	
9/9/2024			0.0056			
Mean	0.7459	0.008781	0.008252	0.002691	0.002055	0.02419
Std. Dev.	0.3849	0.001466	0.001848	0.002755	0.001025	0.02004
Upper Lim.	0.8575	0.009569	0.009272	0.005	0.0019	0.03142
Lower Lim.	0.5319	0.008454	0.007233	0.00048	0.0015	0.01223

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016				0.0568	0.0896
8/31/2016			0.055		
9/1/2016	0.536	0.539			
12/6/2016			0.0432	0.0873	0.122
12/8/2016	0.381	0.575			
3/28/2017			0.04		0.124
3/29/2017				0.0902	
3/30/2017		0.573			
3/31/2017	0.354				
7/11/2017			0.0351 (J)	0.0601	0.136
7/13/2017	0.396	0.531			
10/24/2017				0.123	0.151
10/25/2017			0.0209		
10/26/2017	0.383	0.482			
2/27/2018			0.024	0.126	0.163
3/1/2018	0.401				
3/2/2018		0.49			
7/11/2018					0.18
7/12/2018	0.36	0.46			
11/6/2018			0.019	0.077	0.2
11/7/2018	0.35	0.48			
8/27/2019			0.02		0.24
8/28/2019				0.051	
8/29/2019	0.28	0.42			
10/16/2019			0.022	0.054	
10/17/2019	0.26				0.21
10/18/2019		0.41			
3/2/2020			0.028		
3/3/2020				0.044	0.2
3/4/2020	0.28	0.42			
8/11/2020					0.22
8/12/2020	0.21		0.021	0.053	
8/13/2020		0.35			
9/22/2020			0.02		0.16
9/23/2020	0.17	0.37		0.04	
3/2/2021			0.021	0.033	0.18
3/3/2021	0.2	0.36			
9/10/2021	0.23	0.36	0.022		0.21
9/13/2021				0.028	
1/21/2022	0.24				
1/24/2022		0.34	0.025		
1/25/2022				0.019	
1/26/2022					0.22
9/13/2022	0.21	0.31			
9/14/2022			0.027		
9/15/2022				0.0046 (J)	
9/19/2022					0.25
2/3/2023	0.21	0.31			0.21
2/7/2023			0.021	0.0018 (J)	
9/12/2023	0.18			0.003 (J)	
9/13/2023		0.31	0.016		
2/1/2024			0.015	0.0013 (J)	

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/5/2024	0.18	0.27			
9/5/2024	0.22				
9/6/2024			0.016		
9/9/2024				<0.005	
9/10/2024		0.29			
9/11/2024					0.27
Mean	0.2872	0.4119	0.02556	0.04778	0.1861
Std. Dev.	0.09783	0.09573	0.01025	0.03839	0.04757
Upper Lim.	0.3412	0.4647	0.02988	0.06958	0.2139
Lower Lim.	0.2332	0.3591	0.01981	0.02598	0.1582

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	1.4 (U)					
9/25/2020	0.799 (U)					
12/9/2020				15.2		1.49
12/17/2020			1.22 (U)		0.952 (U)	
1/11/2021			0.635 (U)			
1/12/2021		1.91		17		
3/4/2021			0.789 (U)	14.5	0.681 (U)	2.14
3/5/2021		2.17				
3/8/2021	0.168 (U)					
9/10/2021			1.74			
9/13/2021	0.774 (U)	1.8			0.625 (U)	0.813 (U)
9/14/2021				9.6		
1/21/2022	0.769 (U)					
1/24/2022				11.9		1.14 (U)
1/25/2022					0.454 (U)	
1/26/2022		1.21				
1/27/2022			0.628 (U)			
9/8/2022	0.643 (U)					
9/13/2022				9.12		
9/14/2022						0.737 (U)
9/15/2022			0.61 (U)			
9/16/2022		1.64			0.655 (U)	
2/2/2023	0.981		0.676 (U)			
2/3/2023		0.426 (U)		14.8		
2/6/2023						0.459 (U)
2/7/2023					0.642 (U)	
9/6/2023	0.326 (U)					
9/8/2023		1.57				
9/11/2023			1.25		0.61 (U)	
9/12/2023						0.907 (U)
9/13/2023				13.9		
1/31/2024	0.0563 (U)					
2/1/2024						0.666 (U)
2/2/2024		1.15	0.277 (U)		0.203 (U)	
2/5/2024				15.2		
9/5/2024	0.44 (U)					
9/9/2024					0.538 (U)	0.768 (U)
9/10/2024		0.673 (U)	1.19 (U)	8.94		
Mean	0.6356	1.394	0.9015	13.02	0.5956	1.013
Std. Dev.	0.4022	0.5783	0.4338	2.911	0.1996	0.5158
Upper Lim.	0.9945	1.953	1.289	15.61	0.7882	1.465
Lower Lim.	0.2768	0.836	0.5145	10.42	0.4029	0.5665

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	B-56	B-62
1/30/2019						1.97 (U)
10/21/2019						1.82
8/13/2020						1.63
8/17/2020					1.15 (U)	
9/24/2020						1.28 (U)
9/28/2020					1.39	
12/9/2020	1.31 (U)	12.3				
1/12/2021		9.63				
3/3/2021					1.01 (U)	
3/4/2021	2.02					
3/5/2021		9.05				
3/12/2021						1.18 (U)
4/15/2021			2.31			
9/9/2021						1.7
9/13/2021					0.854 (U)	
9/14/2021	0.917 (U)	4.39	3.68			
1/20/2022			1.21 (U)			1.71
1/24/2022	0.812 (U)	5.68				
1/27/2022					0.831 (U)	
9/9/2022						1.96
9/14/2022		6.23		7.94		
9/15/2022	1.36					
9/16/2022					0.752 (U)	
9/19/2022			2.22			
2/2/2023						1.6
2/3/2023			1.81			
2/6/2023				8.22		
2/7/2023	0.975	6.24			1.01 (U)	
9/7/2023				14.9		2.24
9/8/2023					0.859 (U)	
9/12/2023			1.74			
9/13/2023	1.12	8.6				
2/1/2024	1.11			14.6		2.08
2/5/2024		1.33	1.93		0.988 (U)	
9/9/2024	0.736 (U)	8.3	2.28			2.14
9/10/2024				10.3		
9/11/2024					0.772 (U)	
Mean	1.151	7.175	2.148	11.19	0.9616	1.776
Std. Dev.	0.3872	3.074	0.7175	3.375	0.1953	0.3271
Upper Lim.	1.525	9.917	2.908	16.85	1.136	2.033
Lower Lim.	0.7772	4.433	1.387	5.536	0.7873	1.519

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
1/28/2019	2.14 (U)					
1/30/2019		0.975 (U)				
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)	
10/22/2019	1.28 (U)					
10/24/2019			1.87			
8/13/2020			2.17			
8/14/2020					0.95 (U)	
8/17/2020				0.662 (U)		2.47
9/24/2020			0.761 (U)			
9/25/2020					0.0359 (U)	0.925 (U)
9/28/2020				0.747 (U)		
3/4/2021			2.16		1.15 (U)	
3/5/2021						2.84
9/13/2021						0.771 (U)
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)		
9/16/2021					0.442 (U)	
1/20/2022	0.846 (U)		0.92			
1/21/2022					0.549 (U)	
1/25/2022		0 (U)		0.33 (U)		
1/27/2022						1.18
9/13/2022			1.11		0.893 (U)	
9/14/2022	1.61					
9/16/2022		0.832 (U)		0.694 (U)		1.25
2/2/2023	1.01					
2/3/2023					0.279 (U)	
2/6/2023			0.747 (U)			
2/7/2023		0.764 (U)		0.776 (U)		1.77
9/7/2023	0.988 (U)					
9/11/2023		0.736 (U)		0.212 (U)		
9/12/2023			1.16		0.0781 (U)	1.16
2/1/2024	0.922 (U)	0.294 (U)		0.485 (U)	0.466 (U)	
2/5/2024			0.952 (U)			1.09 (U)
9/6/2024	1.03				0.603 (U)	
9/9/2024		0.0642 (U)		0.62 (U)		
9/10/2024						1.7
9/11/2024			0.891 (U)			
Mean	1.278	0.5729	1.214	0.6186	0.5671	1.516
Std. Dev.	0.4396	0.3916	0.5738	0.2321	0.3571	0.6797
Upper Lim.	1.703	0.951	1.644	0.8257	0.8646	2.122
Lower Lim.	0.8541	0.1948	0.7582	0.4115	0.2695	0.9092

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					1.08	1.09
12/6/2016					1.31	0.409 (U)
3/29/2017					1.24	0.727
7/12/2017					0.831	0.85 (U)
10/24/2017					0.838 (U)	0.98 (U)
2/27/2018					1.55	1.14
7/10/2018					1.65	0.495 (U)
11/6/2018					1.46	1.41
8/27/2019					1.58	2.13
10/15/2019					0.831 (U)	0.622 (U)
3/2/2020						1.3
3/3/2020					1.69	
8/11/2020					1.45	1.02
8/19/2020		1.19 (U)				
9/22/2020						0.502 (U)
9/24/2020					1.39	
9/28/2020		1.54				
3/2/2021						0.666 (U)
3/4/2021					1.48	
3/9/2021		0.786 (U)				
9/9/2021						1.2 (U)
9/10/2021					0.882 (U)	
9/15/2021	1.39	1.84	2.11	2.2		
1/25/2022						0.983 (U)
1/26/2022	1.27 (U)	0.758 (U)	1.47 (U)	0.52 (U)	1.21	
9/12/2022	2.34	1.09				
9/13/2022			1.11	2.03		
9/15/2022					0.953	1.12
1/31/2023	2.04	1.68		0.873 (U)		
2/1/2023			1.33			
2/2/2023					1.47	
2/6/2023						0.442 (U)
9/6/2023	1.41	1.05	1.06 (U)	1.22		
9/8/2023						1.2
9/11/2023					1.09	
1/30/2024	1.63	1.04 (U)		0.597 (U)		
1/31/2024			1.4			
2/1/2024						0.104 (U)
2/2/2024					1.5	
9/4/2024	2.83	1.17 (U)	1.96			
9/5/2024				2.89		
9/9/2024						0.811 (U)
9/11/2024					2.6	
Mean	1.844	1.214	1.491	1.476	1.337	0.9143
Std. Dev.	0.5811	0.3623	0.4018	0.9079	0.4054	0.4392
Upper Lim.	2.535	1.538	1.969	2.554	1.532	1.157
Lower Lim.	1.154	0.8911	1.014	0.3972	1.107	0.6721

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.997 (U)			
9/1/2016	1.11					1.07 (U)
9/6/2016		1.32		0.731 (U)		
9/7/2016					1.17	
12/6/2016			0.659 (U)			
12/7/2016	2.66	1.76		1.73		0.903 (U)
12/8/2016					1.65	
3/29/2017	0.0726 (U)		0.313 (U)			0.302 (U)
3/30/2017		1.59		0.276 (U)	0.865 (U)	
7/12/2017	0.538 (U)	1.36	1.03 (U)	0.584 (U)	0.362 (U)	0.283 (U)
10/25/2017	0.216 (U)		0.607 (U)	0.454 (U)	0.401 (U)	0.927 (U)
11/15/2017		1.08 (U)				
2/27/2018	0.83		0.695 (U)			
2/28/2018		0.721 (U)		1.25	1.1 (U)	0.813 (U)
7/10/2018		0.746 (U)				
7/11/2018	0.728 (U)		1.04 (U)	2.13	0.64 (U)	0.751 (U)
11/7/2018	0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)	0.795 (U)	1.02
8/27/2019	0.434 (U)		1.17 (U)		1.12	
8/28/2019		1.43		1.01 (U)		0.661 (U)
10/15/2019	0.359 (U)					
10/16/2019		1.73	1.04 (U)			1.79
10/17/2019				1.03 (U)		
10/18/2019					0.89 (U)	
3/2/2020	1.2 (U)					
3/3/2020		1.03	1.44	0.293 (U)		0.383 (U)
3/4/2020					0.493 (U)	
8/11/2020	0.77 (U)		1.17 (U)			0.723 (U)
8/12/2020		1.63				
8/13/2020				3.58		
8/14/2020					0.804 (U)	
9/22/2020	0.515 (U)		1.2 (U)			0.96 (U)
9/23/2020		0.935 (U)		1.69 (U)		
9/24/2020					0.369 (U)	
3/2/2021		1.12 (U)	0.861 (U)	0.599 (U)		0.775 (U)
3/3/2021	1.85				0.66 (U)	
9/9/2021	1.78	1.23 (U)	0.643 (U)	0.624 (U)		0.239 (U)
9/13/2021					0.85 (U)	
1/24/2022				0.534 (U)	0.692 (U)	
1/25/2022	0.739 (U)	0.254 (U)	0.229 (U)			0.415 (U)
9/13/2022			0.538 (U)	0.761 (U)		
9/14/2022					0.489 (U)	0.674 (U)
9/15/2022	0.52 (U)	1.01				
2/1/2023		0.819 (U)	0.794 (U)			
2/2/2023				0.991		
2/6/2023	1 (U)				0.809 (U)	1.23
9/8/2023		0.771 (U)	0.75 (U)	0.673 (U)		0.371 (U)
9/11/2023	1.02					
9/13/2023					1.02 (U)	
1/31/2024		1.04 (U)				
2/1/2024						0.347 (U)
2/2/2024	0.686 (U)					
2/5/2024			0.651 (U)	0.698 (U)		

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
2/6/2024					0.234 (U)	
9/5/2024	0.935 (U)	0.791 (U)		0.715 (U)		0.365 (U)
9/10/2024			0.719 (U)		0.265 (U)	
Mean	0.8751	1.123	0.8161	1.007	0.7466	0.7144
Std. Dev.	0.6069	0.3815	0.3039	0.7574	0.3497	0.3847
Upper Lim.	1.116	1.334	0.9838	1.278	0.9395	0.9266
Lower Lim.	0.51	0.9128	0.6485	0.602	0.5536	0.5022

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		1.48	0.908 (U)	1.54		
12/7/2016		1.26 (U)				
12/8/2016			1.03 (U)	0.505 (U)		
3/28/2017						1.36
3/29/2017		0.373 (U)		0.715 (U)		
3/30/2017	0.737 (U)		0.884 (U)		0.297 (U)	
5/11/2017	0.892 (U)					
5/12/2017					0.693 (U)	1.15
6/15/2017	0.979 (U)				0.435 (U)	0.765 (U)
7/11/2017	0.871 (U)					1.13
7/12/2017		0.91 (U)	1.22		0.703 (U)	
7/13/2017				1.14		
10/24/2017	1.19					1.24
10/25/2017		0.853 (U)	1.07 (U)	1.6		
10/26/2017					0.984 (U)	
2/27/2018	0.863 (U)					1.82
2/28/2018		0.727 (U)	1.45	0.918 (U)		
3/1/2018					0.743 (U)	
7/10/2018						1.37
7/11/2018	0.663 (U)	1.3	1.59			
7/12/2018				0.981 (U)	0.918 (U)	
11/6/2018	0.664					1.2
11/7/2018		0.746 (U)	1.16	0.832 (U)		
11/8/2018					1.47	
8/27/2019	1.6					1.79
8/29/2019		0.996 (U)	0.582 (U)	1.87	2.21	
10/15/2019						2.11 (U)
10/17/2019	1.74	2	0.427 (U)			
10/18/2019				1.1 (U)	1.32	
3/2/2020						1.99
3/3/2020	1.23		0.567 (U)	0.517 (U)		
3/4/2020		1.67			1.39	
8/11/2020	1.37					
8/12/2020						1.95
8/13/2020		1.77			1.48 (U)	
8/14/2020			0.602 (U)	1.83		
9/22/2020		1.61 (U)				1.43 (U)
9/23/2020	1.96 (U)					
9/24/2020			0.396 (U)	1.02 (U)	1.49	
3/1/2021						1.05 (U)
3/2/2021	1.54 (U)	1.76				
3/3/2021			0.248 (U)	0.547 (U)	1.05 (U)	
9/9/2021	1.22 (U)		0.702 (U)		1.81	
9/10/2021		0.689 (U)		0.616 (U)		1.46
1/20/2022	0.722 (U)		0.337 (U)	0.298 (U)	0.61 (U)	
1/21/2022		0.826 (U)				
1/24/2022						0.944 (U)
9/15/2022		1.38	0.771 (U)			
9/16/2022				1.01		
9/19/2022						1.55
9/20/2022	0.45 (U)				1.17 (U)	
2/3/2023						1.51

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
2/6/2023	0.5 (U)			0.975	1.44	
2/7/2023		1.92	0.582 (U)			
9/11/2023		1.45	0.429 (U)	0.58 (U)	1.28	
9/13/2023	0.864 (U)					0.964 (U)
1/31/2024			0.542 (U)	0.395 (U)	1.1	
2/1/2024	1.06	1.38				1.39
9/4/2024			0.426 (U)			
9/5/2024		1.55			1.12	
9/6/2024						1.71
9/9/2024	1.41			0.745 (U)		
Mean	1.073	1.269	0.7582	0.9397	1.129	1.423
Std. Dev.	0.4152	0.4576	0.3758	0.4527	0.4618	0.3698
Upper Lim.	1.302	1.521	0.9656	1.189	1.384	1.627
Lower Lim.	0.8436	1.017	0.5509	0.69	0.8745	1.219

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.919 (U)	1.33
8/31/2016				2.49		
9/1/2016		4.47	2.37			
9/7/2016	0.876 (U)					
12/6/2016				0.348 (U)	0.407 (U)	0.828 (U)
12/8/2016	0.955	2.88	2.87			
3/28/2017				0.693 (U)		1.06
3/29/2017					0.28 (U)	
3/30/2017			1.71			
3/31/2017	0.102 (U)	1.14				
7/11/2017				1.38	0.209 (U)	0.62 (U)
7/13/2017	1.08 (U)	2.37	1.78			
10/24/2017					0.615 (U)	1.21
10/25/2017	1.46			2.06		
10/26/2017		2.88	3.74			
2/27/2018				1.97	1.05 (U)	1.79
2/28/2018	0.882 (U)					
3/1/2018		2.21				
3/2/2018			2.26			
7/10/2018				1.03 (U)	0.363 (U)	
7/11/2018	0.924 (U)					1.81
7/12/2018		1.73	1.81			
11/6/2018				1.13	0.577 (U)	1.13
11/7/2018	0.654 (U)	1.72	1.94			
8/27/2019				1.81		1.55
8/28/2019	0.883 (U)				0.815 (U)	
8/29/2019		3.05	2.37			
10/16/2019				1.63	0.999 (U)	
10/17/2019	1.38	2.58				0.702 (U)
10/18/2019			1.42			
3/2/2020				2.28		
3/3/2020					0.481 (U)	1.37
3/4/2020	0.722 (U)	1.68	1.31			
8/11/2020						0.819 (U)
8/12/2020		2.56		1.13	0.721 (U)	
8/13/2020	1.23 (U)		1.74			
9/22/2020	1.03 (U)			1.4 (U)		1.15 (U)
9/23/2020		2.3 (U)	1.51 (U)		0.8 (U)	
3/2/2021				0.971 (U)	0.751 (U)	1.29 (U)
3/3/2021	0.92 (U)	1.27 (U)	1.41			
9/10/2021		2.32	2.21	1.15		1.28
9/13/2021	1.15 (U)				0.916 (U)	
1/20/2022	0.0465 (U)					
1/21/2022		0.785 (U)				
1/24/2022			0.668 (U)	0.807 (U)		
1/25/2022					0.356 (U)	
1/26/2022						0.789 (U)
9/13/2022	0.829 (U)	1.97	1.42			
9/14/2022				0.665 (U)		
9/15/2022					0.896	
9/19/2022						1.38
2/1/2023	0.599 (U)					

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/3/2023		1.8	1.4			0.949 (U)
2/7/2023				1.26	0.737 (U)	
9/12/2023		2.19			0.63 (U)	
9/13/2023	1.59		1.22 (U)	1.23 (U)		
1/30/2024	0.822 (U)					
2/1/2024				1.18	1.18	
2/5/2024		1.39	1.55			
9/5/2024	0.651 (U)	1.92				
9/6/2024				0.712 (U)		
9/9/2024					1.12	
9/10/2024			1.84			
9/11/2024						1.26 (U)
Mean	0.8945	2.153	1.836	1.301	0.7058	1.175
Std. Dev.	0.3786	0.7982	0.6538	0.5629	0.2819	0.3378
Upper Lim.	1.103	2.593	2.196	1.612	0.8613	1.372
Lower Lim.	0.6857	1.713	1.475	0.9907	0.5503	0.9768

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	<0.1					
9/25/2020	<0.1					
12/9/2020				0.33		<0.1
12/17/2020			0.079 (J)		0.052 (J)	
1/11/2021			0.077 (J)			
1/12/2021		0.052 (J)		0.36		
3/4/2021			0.11	0.43	0.055 (J)	<0.1
3/5/2021		0.053 (J)				
3/8/2021	<0.1					
9/10/2021			0.083 (J)			
9/13/2021	<0.1	0.051 (J)			0.052 (J)	<0.1
9/14/2021				0.5		
1/21/2022	<0.1					
1/24/2022				0.28		<0.1
1/25/2022					<0.1	
1/26/2022		<0.1				
1/27/2022			0.062 (J)			
9/8/2022	0.072 (J)					
9/13/2022				0.35		
9/14/2022						0.053 (J)
9/15/2022			0.11			
9/16/2022		0.099 (J)			0.08 (J)	
2/2/2023	0.052 (J)		0.091 (J)			
2/3/2023		0.11		0.36		
2/6/2023						<0.1
2/7/2023					0.067 (J)	
9/6/2023	<0.1					
9/8/2023		<0.1				
9/11/2023			0.1		0.067 (J)	
9/12/2023						<0.1
9/13/2023				0.3		
1/31/2024	0.063 (J)					
2/1/2024						<0.1
2/2/2024		0.063 (J)	0.081 (J)		0.059 (J)	
2/5/2024				0.29		
9/5/2024	0.069 (J)					
9/9/2024					0.076 (J)	0.053 (J)
9/10/2024		0.072 (J)	0.06 (J)	0.34		
Mean	0.0856	0.07778	0.0853	0.354	0.062	0.08956
Std. Dev.	0.01928	0.0243	0.01759	0.06703	0.01102	0.02073
Upper Lim.	0.1	0.11	0.101	0.4138	0.07264	0.1
Lower Lim.	0.063	0.051	0.06961	0.2942	0.05136	0.053

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	B-56	B-62
1/30/2019						0.43
10/21/2019						0.23 (J)
8/13/2020						0.11
8/17/2020					0.19	
9/24/2020						0.093 (J)
9/28/2020					0.098 (J)	
12/9/2020	<0.1	0.33				
1/12/2021		0.32				
3/3/2021					0.34	
3/4/2021	<0.1					
3/5/2021		0.51				
3/12/2021						0.11
4/15/2021			<0.1			
9/9/2021						0.14
9/13/2021					0.2	
9/14/2021	<0.1	0.57	<0.1			
1/20/2022			<0.1			0.099 (J)
1/24/2022	<0.1	0.38				
1/27/2022					0.21	
6/6/2022				0.2		
9/8/2022						0.13
9/14/2022		0.38				
9/15/2022	0.061 (J)					
9/16/2022					0.22	
9/19/2022			0.057 (J)			
2/2/2023						0.16
2/3/2023			0.052 (J)			
2/6/2023				0.21		
2/7/2023	<0.1	0.36			0.19	
9/7/2023				0.22		0.13
9/8/2023					0.24	
9/12/2023			<0.1			
9/13/2023	<0.1	0.36				
2/1/2024	0.13			0.18		0.14
2/5/2024		0.4	0.061 (J)		0.34	
9/9/2024	0.06 (J)	0.44	0.084 (J)			0.18
9/10/2024				0.18		
9/11/2024					0.34	
Mean	0.09456	0.405	0.08175	0.198	0.2368	0.1627
Std. Dev.	0.02166	0.08003	0.0216	0.01789	0.08025	0.0924
Upper Lim.	0.13	0.4764	0.1	0.228	0.3084	0.2054
Lower Lim.	0.06	0.3336	0.052	0.168	0.1652	0.1057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
1/28/2019	0.45					
1/30/2019		0.51				
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)	
10/22/2019	0.2 (J)					
10/24/2019			0.096 (J)			
8/13/2020			<0.1			
8/14/2020					0.05 (J)	
8/17/2020				<0.1		<0.1
9/24/2020			<0.1			
9/25/2020					<0.1	<0.1
9/28/2020				<0.1		
3/4/2021			<0.1		0.071 (J)	
3/5/2021						<0.1
9/13/2021						<0.1
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)		
9/16/2021					0.066 (J)	
1/20/2022	0.12		<0.1			
1/21/2022					<0.1	
1/25/2022		0.12		<0.1		
1/27/2022						<0.1
9/13/2022			0.08 (J)		0.081 (J)	
9/14/2022	0.14					
9/16/2022		0.18		0.079 (J)		0.054 (J)
2/2/2023	0.13					
2/3/2023					0.12	
2/6/2023			0.069 (J)			
2/7/2023		0.12		0.086 (J)		<0.1
9/7/2023	0.12					
9/11/2023		0.12		0.11		
9/12/2023			0.069 (J)		0.087 (J)	<0.1
2/1/2024	0.12	0.1		0.093 (J)	0.073 (J)	
2/5/2024			0.067 (J)			<0.1
9/6/2024	0.15				0.092 (J)	
9/9/2024		0.11		0.074 (J)		
9/10/2024						0.056 (J)
9/11/2024			<0.1			
Mean	0.1767	0.1978	0.08718	0.0994	0.08818	0.091
Std. Dev.	0.1057	0.1342	0.0145	0.0391	0.02363	0.01898
Upper Lim.	0.45	0.51	0.1	0.1223	0.1026	0.1
Lower Lim.	0.12	0.1	0.069	0.06122	0.06439	0.056

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					1	0.06 (J)
12/6/2016					1.3	0.06 (J)
3/29/2017					1.5	0.04 (J)
7/12/2017					1.7	0.03 (J)
10/24/2017					2.1	<0.1
11/15/2017					1.4	
2/27/2018					2.3	<0.1
11/6/2018					2	<0.1
3/12/2019					1.7	0.052 (J)
8/27/2019					1.4	<0.1
10/15/2019					1.4	<0.1
3/2/2020						0.064 (J)
3/3/2020					1.5	
8/11/2020					1.4	<0.1
8/19/2020		0.32				
9/22/2020						<0.1
9/24/2020					0.97	
9/28/2020		0.3				
3/2/2021						<0.1
3/4/2021					1.8	
3/9/2021		0.34				
9/9/2021						<0.1
9/10/2021					2.2	
9/15/2021	0.18	0.34	0.085 (J)	0.098 (J)		
1/25/2022						<0.1
1/26/2022	0.3	0.41	0.088 (J)	0.13	1.8	
9/12/2022	0.24	0.4				
9/13/2022			0.14	0.18		
9/15/2022					0.84	0.064 (J)
1/31/2023	0.2	0.4		0.19		
2/1/2023			0.11			
2/2/2023					1.1	
2/6/2023						<0.1
9/6/2023	0.26	0.26	0.085 (J)	0.1		
9/8/2023						<0.1
9/11/2023					1.3	
1/30/2024	0.23	0.18		0.13		
1/31/2024			0.093 (J)			
2/1/2024						<0.1
2/2/2024					1.2	
9/4/2024	0.35	0.34	0.14			
9/5/2024				0.12		
9/9/2024						0.056 (J)
9/11/2024					1.6	
Mean	0.2514	0.329	0.1059	0.1354	1.523	0.08219
Std. Dev.	0.05843	0.07062	0.02484	0.03633	0.3985	0.02436
Upper Lim.	0.3208	0.392	0.14	0.1786	1.737	0.1
Lower Lim.	0.182	0.266	0.085	0.09228	1.309	0.06

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.06 (J)			
9/1/2016	0.02 (J)					0.75
9/6/2016		0.17 (J)		0.11 (J)		
9/7/2016					0.32	
12/6/2016			0.1 (J)			
12/7/2016	0.16 (J)	0.3		0.11 (J)		0.37
12/8/2016					0.31	
3/29/2017	0.1 (J)		0.02 (J)			0.35
3/30/2017		0.12 (J)		<0.1	0.1 (J)	
7/12/2017	0.2 (J)	0.13 (J)	<0.1	0.07 (J)	0.27 (J)	0.34
10/25/2017	0.6		<0.1	0.26 (J)	0.49	0.9
11/15/2017		0.44				
2/27/2018	0.34		<0.1			
2/28/2018		0.18		<0.1	0.54	1.2
7/11/2018	<0.1		<0.1	<0.1	0.15 (J)	0.37
11/7/2018	<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.3 (J)
3/12/2019	0.065 (J)					
3/13/2019		0.13 (J)	0.042 (J)		0.084 (J)	0.22 (J)
3/14/2019				0.057 (J)		
8/27/2019	<0.1		<0.1		0.24 (J)	
8/28/2019		0.091 (J)		<0.1		0.2
10/15/2019	<0.1					
10/16/2019		0.14 (J)	0.052 (J)			0.23 (J)
10/17/2019				0.079 (J)		
10/18/2019					0.086 (J)	
3/2/2020	0.071 (J)					
3/3/2020		0.078 (J)	<0.1	<0.1		0.056 (J)
3/4/2020					<0.1	
8/11/2020	<0.1		<0.1			0.2
8/12/2020		0.051 (J)				
8/13/2020				<0.1		
8/14/2020					0.069 (J)	
9/22/2020	<0.1		<0.1			0.084 (J)
9/23/2020		0.058 (J)		<0.1		
9/24/2020					0.056 (J)	
3/2/2021		0.084 (J)	<0.1	<0.1		0.19
3/3/2021	0.085 (J)				0.085 (J)	
9/9/2021	0.099 (J)	0.083 (J)	<0.1	<0.1		0.18
9/13/2021					0.063 (J)	
1/24/2022				<0.1	<0.1	
1/25/2022	0.093 (J)	0.063 (J)	<0.1			0.16
9/13/2022			0.059 (J)	0.065 (J)		
9/14/2022					0.1	0.18
9/15/2022	0.078 (J)	0.095 (J)				
2/1/2023		0.09 (J)	0.067 (J)			
2/2/2023				0.065 (J)		
2/6/2023	0.1				0.096 (J)	0.22
9/8/2023		0.055 (J)	<0.1	<0.1		0.17
9/11/2023	0.13					
9/13/2023					0.1	
1/31/2024		0.079 (J)				
2/1/2024						0.19

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
2/2/2024	0.12					
2/5/2024			0.054 (J)	0.065 (J)		
2/6/2024					0.1	
9/5/2024	0.064 (J)	0.079 (J)		0.061 (J)		0.18
9/10/2024			0.051 (J)		0.11	
Mean	0.142	0.127	0.08205	0.09736	0.1645	0.3132
Std. Dev.	0.1261	0.09155	0.02569	0.04026	0.1398	0.2805
Upper Lim.	0.1379	0.1454	0.1	0.11	0.1842	0.3508
Lower Lim.	0.0638	0.07965	0.059	0.07	0.08567	0.1646

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		0.66	0.07 (J)	0.3		
12/7/2016		0.66				
12/8/2016			0.14 (J)	0.12 (J)		
3/28/2017						0.17 (J)
3/29/2017		0.34		0.11 (J)		
3/30/2017	0.06 (J)		<0.1		0.12 (J)	
5/11/2017	0.06 (J)					
5/12/2017					0.36	<0.1
6/15/2017	0.07 (J)				0.21 (J)	0.02 (J)
7/11/2017	0.04 (J)					0.02 (J)
7/12/2017		0.41	0.04 (J)		0.22 (J)	
7/13/2017				0.09 (J)		
10/24/2017	0.43					<0.1
10/25/2017		0.68	0.34	0.25 (J)		
10/26/2017					0.66	
11/15/2017						0.79
2/27/2018	0.28					<0.1
2/28/2018		0.76	<0.1	<0.1		
3/1/2018					0.18	
7/11/2018	0.6	1.3	<0.1			
7/12/2018				0.13 (J)	0.25 (J)	
11/6/2018	<0.1					<0.1
11/7/2018		<0.3 (J)	<0.1	<0.1		
11/8/2018					<0.3 (J)	
3/12/2019	0.052 (J)					0.082 (J)
3/13/2019		0.45	0.043 (J)			
3/14/2019				0.042 (J)	0.092 (J)	
8/27/2019	<0.1					<0.1
8/29/2019		0.78	0.079 (J)	0.054 (J)	0.095 (J)	
10/15/2019						<0.1
10/17/2019	0.042 (J)	0.26 (J)	<0.1			
10/18/2019				<0.1	0.079 (J)	
3/2/2020						<0.1
3/3/2020	<0.1		<0.1	<0.1		
3/4/2020		1.5			0.075 (J)	
8/11/2020	<0.1					
8/12/2020						<0.1
8/13/2020		0.9			0.1	
8/14/2020			<0.1	<0.1		
9/22/2020		0.15				<0.1
9/23/2020	<0.1					
9/24/2020			<0.1	<0.1	0.075 (J)	
3/1/2021						<0.1
3/2/2021	<0.1	1.4				
3/3/2021			<0.1	<0.1	0.063 (J)	
9/9/2021	0.053 (J)		<0.1		0.084 (J)	
9/10/2021		0.25		<0.1		<0.1
1/20/2022	<0.1		<0.1	<0.1	<0.1	
1/21/2022		1.3				
1/24/2022						<0.1
9/15/2022		0.69	0.087 (J)			
9/16/2022				0.068 (J)		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/19/2022						0.061 (J)
9/20/2022	0.076 (J)				0.11	
2/3/2023						0.096 (J)
2/6/2023	0.072 (J)			0.057 (J)	0.076 (J)	
2/7/2023		1.1	0.059 (J)			
9/11/2023		1.5	0.054 (J)	0.054 (J)	0.1	
9/13/2023	0.083 (J)					<0.1
1/31/2024			<0.1	<0.1	0.074 (J)	
2/1/2024	0.067 (J)	1.4				<0.1
9/4/2024			0.065 (J)			
9/5/2024		1.8			0.089 (J)	
9/6/2024						0.051 (J)
9/9/2024	0.093 (J)			0.067 (J)		
Mean	0.1263	0.8382	0.09895	0.1065	0.1505	0.1223
Std. Dev.	0.1371	0.5005	0.05878	0.05962	0.1364	0.1523
Upper Lim.	0.1	1.107	0.1	0.11	0.1671	0.17
Lower Lim.	0.06	0.5695	0.07	0.068	0.08544	0.096

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.39	0.78
8/31/2016				1		
9/1/2016		1.8	1.5			
9/7/2016	0.02 (J)					
12/6/2016				0.76	0.47	1.1
12/8/2016	0.06 (J)	1.1	1.6			
3/28/2017				1.2		1.1
3/29/2017					0.51	
3/30/2017			0.86			
3/31/2017	<0.1	0.88				
7/11/2017				0.7	0.2 (J)	1.1
7/13/2017	<0.1	0.84	1.1			
10/24/2017					0.82	1.7
10/25/2017	<0.1			1.4		
10/26/2017		1	1.7			
2/27/2018				1.3	0.59	1.2
2/28/2018	<0.1					
3/1/2018		1.4				
3/2/2018			1.1			
7/11/2018	<0.1					1.3
7/12/2018		0.96	0.65			
11/6/2018				<0.3 (J)	0.35	1.1
11/7/2018	<0.1	0.74	0.63			
3/12/2019				0.31	0.35	0.97
3/14/2019	<0.1	1.6	1.4			
8/27/2019				0.32		0.68
8/28/2019	<0.1				0.098 (J)	
8/29/2019		0.52	0.78			
10/16/2019				0.32	0.14 (J)	
10/17/2019	<0.1	0.46				1.2
10/18/2019			0.46			
3/2/2020				0.33		
3/3/2020					<0.1	1.4
3/4/2020	<0.1	0.74	0.7			
8/11/2020						1.3
8/12/2020		0.22		0.13	0.056 (J)	
8/13/2020	<0.1		0.47			
9/22/2020	<0.1			0.12		0.99
9/23/2020		0.11	0.32		<0.1	
3/2/2021				0.15	0.059 (J)	0.93
3/3/2021	<0.1	0.71	0.67			
9/10/2021		0.22	0.47	0.16		2
9/13/2021	<0.1				0.069 (J)	
1/20/2022	<0.1					
1/21/2022		0.64				
1/24/2022			0.59	0.19		
1/25/2022					<0.1	
1/26/2022						1.2
9/13/2022	<0.1	0.47	0.43			
9/14/2022				0.27		
9/15/2022					0.077 (J)	
9/19/2022						0.8

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/1/2023	<0.1					
2/3/2023		0.45	0.48			0.9
2/7/2023				0.22	0.13	
9/12/2023		0.51			0.091 (J)	
9/13/2023	<0.1		0.51	0.14		
1/30/2024	<0.1					
2/1/2024				0.12	0.064 (J)	
2/5/2024		0.53	0.43			
9/5/2024	<0.1	0.48				
9/6/2024				0.23		
9/9/2024					0.076 (J)	
9/10/2024			0.43			
9/11/2024						0.81
Mean	0.09455	0.7445	0.7855	0.4533	0.2233	1.128
Std. Dev.	0.0187	0.4348	0.4233	0.4241	0.2214	0.3167
Upper Lim.	0.1	0.9779	0.9582	0.5015	0.2423	1.308
Lower Lim.	0.06	0.5111	0.5462	0.1983	0.0848	0.9482

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
3/21/2023	0.099 (J)
4/10/2023	0.13
9/14/2023	<0.1
2/5/2024	0.068 (J)
9/9/2024	0.09 (J)
Mean	0.0974
Std. Dev.	0.02231
Upper Lim.	0.1301
Lower Lim.	0.05898

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-107D	B-108D
8/17/2020	8.8E-05 (J)					
9/25/2020	0.00021 (J)					
12/9/2020				5.1E-05 (J)	4.4E-05 (J)	<0.001
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021		<0.001		<0.001		
3/4/2021			5.9E-05 (J)	<0.001	<0.001	<0.001
3/5/2021		6.5E-05 (J)				
3/8/2021	0.00018 (J)					
9/10/2021			<0.001			
9/13/2021	<0.001	<0.001			<0.001	
9/14/2021				<0.001		<0.001
1/21/2022	<0.001					
1/24/2022				<0.001	<0.001	<0.001
1/26/2022		<0.001				
1/27/2022			<0.001			
9/8/2022	<0.001					
9/13/2022				<0.001		
9/14/2022					<0.001	
9/15/2022			<0.001			<0.001
9/16/2022		<0.001				
2/2/2023	<0.001		<0.001			
2/3/2023		<0.001		<0.001		
2/6/2023					<0.001	
2/7/2023						<0.001
9/6/2023	<0.001					
9/8/2023		<0.001				
9/11/2023			<0.001			
9/12/2023					<0.001	
9/13/2023				<0.001		0.0025
1/31/2024	<0.001					
2/1/2024					<0.001	<0.001
2/2/2024		<0.001	<0.001			
2/5/2024				0.00047 (J)		
9/5/2024	<0.001					
9/9/2024					<0.001	<0.001
9/10/2024		<0.001	<0.001	<0.001		
Mean	0.0007478	0.0008961	0.0007146	0.0008521	0.0008938	0.001167
Std. Dev.	0.0004072	0.0003117	0.0004596	0.0003271	0.0003187	0.0005
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0025
Lower Lim.	0.00018	6.5E-05	5E-05	0.00047	4.4E-05	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-120D	B-56	B-63	B-77	B-82
1/28/2019				<0.001		
9/11/2019				4.7E-05 (J)		
9/18/2019					0.00032 (J)	
9/23/2019						0.00016 (J)
10/21/2019						<0.001
10/22/2019				7.3E-05 (J)		
10/24/2019					<0.001	
8/13/2020					0.0016 (J)	
8/17/2020			0.00022 (J)			5.9E-05 (J)
9/24/2020					0.00021 (J)	
9/28/2020			9.1E-05 (J)			0.00011 (J)
12/9/2020	5.8E-05 (J)					
1/12/2021	5.1E-05 (J)					
3/3/2021			0.0001 (J)			
3/4/2021					0.00029 (J)	
3/5/2021	<0.001					
4/15/2021		0.00019 (J)				
9/13/2021			<0.001			
9/14/2021	<0.001	<0.001		<0.001	<0.001	<0.001
1/20/2022		<0.001		<0.001	<0.001	
1/24/2022	<0.001					
1/25/2022						<0.001
1/27/2022			<0.001			
9/13/2022					<0.001	
9/14/2022	<0.001			<0.001		
9/16/2022			<0.001			<0.001
9/19/2022		<0.001				
2/2/2023				<0.001		
2/3/2023		<0.001				
2/6/2023					<0.001	
2/7/2023	<0.001		<0.001			<0.001
9/7/2023				<0.001		
9/8/2023			<0.001			
9/11/2023						<0.001
9/12/2023		<0.001			<0.001	
9/13/2023	<0.001					
2/1/2024				<0.001		<0.001
2/5/2024	<0.001	<0.001	<0.001		0.00066 (J)	
9/6/2024				<0.001		
9/9/2024	<0.001	<0.001				<0.001
9/11/2024			<0.001		<0.001	
Mean	0.0008109	0.0008988	0.0007411	0.000812	0.00084	0.0007572
Std. Dev.	0.0003987	0.0002864	0.0004182	0.0003964	0.0003999	0.0004165
Upper Lim.	0.001	0.001	0.001	0.001	0.0016	0.001
Lower Lim.	5.8E-05	0.00019	0.0001	7.3E-05	0.00029	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93	B-98	DGWC-10	DGWC-11
8/31/2016					<0.005	<0.001
12/6/2016					<0.005	<0.001
3/29/2017					<0.005	<0.001
7/12/2017					<0.005	<0.001
10/24/2017					<0.005	<0.001
2/27/2018					<0.005	<0.001
11/6/2018					<0.005	<0.001
8/27/2019					0.00024 (J)	0.00012 (J)
10/15/2019					0.00014 (J)	7.6E-05 (J)
10/21/2019	0.00012 (J)					
3/2/2020						0.00015 (J)
3/3/2020					0.00011 (J)	
8/11/2020					7E-05 (J)	5.3E-05 (J)
8/14/2020	0.00092 (J)					
8/17/2020		0.00081 (J)				
8/19/2020			0.00012 (J)			
9/22/2020						0.0001 (J)
9/24/2020					0.00013 (J)	
9/25/2020	6.5E-05 (J)	0.00035 (J)				
9/28/2020			0.00012 (J)			
3/2/2021						<0.001
3/4/2021	0.00017 (J)				9.2E-05 (J)	
3/5/2021		0.012				
3/9/2021			<0.001			
9/9/2021						<0.001
9/10/2021					<0.005	
9/13/2021		<0.001				
9/15/2021			<0.001	<0.001		
9/16/2021	<0.001					
1/21/2022	<0.001					
1/25/2022						<0.001
1/26/2022			<0.001	<0.001	<0.005	
1/27/2022		0.0022				
9/12/2022			<0.001			
9/13/2022	<0.001			<0.001		
9/15/2022					<0.005	<0.001
9/16/2022		<0.001				
1/31/2023			<0.001	<0.001		
2/2/2023					<0.005	
2/3/2023	<0.001					
2/6/2023						<0.001
2/7/2023		<0.001				
9/6/2023			<0.001	<0.001		
9/8/2023						<0.001
9/11/2023					<0.005	
9/12/2023	<0.001	0.0009 (J)				
1/30/2024			<0.001	<0.001		
2/1/2024	<0.001					<0.001
2/2/2024					<0.005	
2/5/2024		0.00073 (J)				
9/4/2024			<0.001			
9/5/2024				0.0014		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93	B-98	DGWC-10	DGWC-11
9/6/2024	<0.001					
9/9/2024						<0.001
9/10/2024		0.0012				
9/11/2024					<0.005	
Mean	0.0007523	0.002119	0.000824	0.001057	0.003539	0.000775
Std. Dev.	0.0004085	0.003504	0.000371	0.0001512	0.00229	0.0004003
Upper Lim.	0.001	0.0022	0.001	0.0014	0.005	0.001
Lower Lim.	0.00012	0.00073	0.00012	0.001	0.00014	0.00015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			<0.001			
9/1/2016	<0.001					<0.001
9/6/2016		<0.001		<0.001		
9/7/2016					<0.001	
12/6/2016			<0.001			
12/7/2016	<0.001	<0.001		0.0002 (J)		<0.001
12/8/2016					<0.001	
3/29/2017	<0.001		<0.001			<0.001
3/30/2017		0.0002 (J)		0.0001 (J)	0.0001 (J)	
7/12/2017	<0.001	<0.001	<0.001	0.0001 (J)	<0.001	<0.001
10/25/2017	<0.001		<0.001	<0.001	<0.001	<0.001
11/15/2017		<0.001				
2/27/2018	<0.001		<0.001			
2/28/2018		<0.001		<0.001	<0.001	<0.001
7/11/2018	<0.001		<0.001	<0.001	<0.001	<0.001
11/7/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	0.0001 (J)		<0.001		9E-05 (J)	
8/28/2019		<0.001		5.9E-05 (J)		0.00026 (J)
9/17/2019	<0.001					
10/15/2019	<0.001					
10/16/2019		<0.001	<0.001			<0.001
10/17/2019				<0.001		
10/18/2019					7.4E-05 (J)	
3/2/2020	<0.001					
3/3/2020		<0.001	<0.001	<0.001		7E-05 (J)
3/4/2020					0.00013 (J)	
8/11/2020	<0.001		9.6E-05 (J)			5.3E-05 (J)
8/12/2020		<0.001				
8/13/2020				0.0012 (J)		
8/14/2020					0.00017 (J)	
9/22/2020	0.00011 (J)		4.4E-05 (J)			0.00016 (J)
9/23/2020		9.8E-05 (J)		8.2E-05 (J)		
9/24/2020					7.9E-05 (J)	
3/2/2021		<0.001	8.3E-05 (J)	<0.001		4.5E-05 (J)
3/3/2021	<0.001				0.00015 (J)	
9/9/2021	<0.001	<0.001	<0.001	<0.001		<0.001
9/13/2021					<0.001	
1/24/2022				<0.001	<0.001	
1/25/2022	<0.001	<0.001	<0.001			<0.001
9/13/2022			<0.001	<0.001		
9/14/2022					<0.001	<0.001
9/15/2022	<0.001	<0.001				
2/1/2023		<0.001	<0.001			
2/2/2023				<0.001		
2/6/2023	<0.001				<0.001	<0.001
9/8/2023		<0.001	<0.001	<0.001		<0.001
9/11/2023	<0.001					
9/13/2023					<0.001	
1/31/2024		<0.001				
2/1/2024						<0.001
2/2/2024	<0.001					
2/5/2024			<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
2/6/2024					<0.001	
9/5/2024	<0.001	<0.001		<0.001		0.0014
9/10/2024			<0.001		<0.001	
Mean	0.0009186	0.0009149	0.0008678	0.0007972	0.0007044	0.000809
Std. Dev.	0.0002634	0.0002625	0.000332	0.0003978	0.0004288	0.0004075
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00011	0.0002	9.6E-05	0.0002	0.00013	0.00026

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-23	DGWC-4	DGWC-42
9/2/2016		<0.01	0.0002 (J)			
9/7/2016						0.0002 (J)
12/7/2016		<0.01				
12/8/2016			<0.001			0.0002 (J)
3/28/2017					0.0002 (J)	
3/29/2017		<0.01				
3/30/2017	0.0001 (J)		0.0004 (J)	<0.001		
3/31/2017						0.0004 (J)
5/11/2017	9E-05 (J)					
5/12/2017				<0.001	<0.001	
6/15/2017	0.0001 (J)			<0.001	<0.001	
7/11/2017	<0.001				<0.001	
7/12/2017		<0.01	0.0001 (J)	<0.001		
7/13/2017						0.0004 (J)
10/24/2017	<0.001				<0.001	
10/25/2017		<0.01	<0.001			0.0002 (J)
10/26/2017				<0.001		
2/27/2018	<0.001				<0.001	
2/28/2018		<0.01	<0.001			<0.001
3/1/2018				<0.001		
7/11/2018	<0.001	<0.01	<0.001			0.00052 (J)
7/12/2018				<0.001		
11/6/2018	<0.001				<0.001	
11/7/2018		<0.01	<0.001			<0.005 (J)
11/8/2018				<0.001		
8/27/2019	6E-05 (J)				4.9E-05 (J)	
8/28/2019						0.00036 (J)
8/29/2019		0.00015 (J)	0.00023 (J)	6.6E-05 (J)		
10/15/2019					0.0001 (J)	
10/17/2019	8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)			0.00026 (J)
10/18/2019				<0.001		
3/2/2020					<0.001	
3/3/2020	<0.001		0.00015 (J)			
3/4/2020		0.00068 (J)		<0.001		0.0001 (J)
8/11/2020	6.4E-05 (J)					
8/12/2020					<0.001	
8/13/2020		0.00044 (J)		<0.001		0.0016 (J)
8/14/2020			<0.001			
9/22/2020		0.00013 (J)			<0.001	0.00074 (J)
9/23/2020	9.4E-05 (J)					
9/24/2020			0.00014 (J)	<0.001		
3/1/2021					0.00012 (J)	
3/2/2021	0.00014 (J)	0.00047 (J)				
3/3/2021			<0.001	<0.001		0.00024 (J)
9/9/2021	<0.001		<0.001	<0.001		
9/10/2021		<0.01			<0.001	
9/13/2021						<0.001
1/20/2022	<0.001		<0.001	<0.001		<0.001
1/21/2022		<0.01				
1/24/2022					<0.001	
9/13/2022						<0.001
9/15/2022		<0.01	<0.001			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-23	DGWC-4	DGWC-42
9/19/2022					<0.001	
9/20/2022	<0.001			<0.001		
2/1/2023						<0.001
2/3/2023					<0.001	
2/6/2023	<0.001			<0.001		
2/7/2023		<0.01	<0.001			
9/11/2023		<0.01	<0.001	<0.001		
9/13/2023	<0.001				<0.001	0.00018 (J)
1/30/2024						0.00017 (J)
1/31/2024			<0.001	<0.001		
2/1/2024	<0.001	<0.01			<0.001	
9/4/2024			0.0025			
9/5/2024		0.0017 (J)		<0.001		0.00021 (J)
9/6/2024					<0.001	
9/9/2024	<0.001					
Mean	0.000654	0.006841	0.0007984	0.0009555	0.0008235	0.0007514
Std. Dev.	0.0004522	0.004588	0.0005555	0.0002038	0.0003631	0.001057
Upper Lim.	0.001	0.01	0.001	0.001	0.001	0.0003784
Lower Lim.	9.4E-05	0.00047	0.0002	6.6E-05	0.0002	0.0001799

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016				<0.001	<0.005
8/31/2016			0.0002 (J)		
9/1/2016	0.0005 (J)	0.0008 (J)			
12/6/2016			0.0004 (J)	<0.001	<0.005
12/8/2016	<0.001	0.0019 (J)			
3/28/2017			<0.001		<0.005
3/29/2017				0.0001 (J)	
3/30/2017		0.0035 (J)			
3/31/2017	0.0009 (J)				
7/11/2017			<0.001	<0.001	<0.005
7/13/2017	0.0007 (J)	0.002 (J)			
10/24/2017				<0.001	<0.005
10/25/2017			0.0024 (J)		
10/26/2017	0.0009 (J)	0.0022 (J)			
2/27/2018			<0.001	<0.001	<0.005
3/1/2018	<0.001				
3/2/2018		<0.001			
7/11/2018					<0.005
7/12/2018	0.001 (J)	0.0014 (J)			
11/6/2018			<0.001	<0.001	<0.005
11/7/2018	<0.005 (J)	<0.005 (J)			
8/27/2019			5.1E-05 (J)		<0.005
8/28/2019				8.2E-05 (J)	
8/29/2019	0.0006 (J)	0.001 (J)			
10/16/2019			8.5E-05 (J)	0.00029 (J)	
10/17/2019	0.0011 (J)				<0.005
10/18/2019		0.00095 (J)			
3/2/2020			5.1E-05 (J)		
3/3/2020				0.00023 (J)	0.00017 (J)
3/4/2020	0.00088 (J)	0.0012 (J)			
8/11/2020					<0.005
8/12/2020	0.0004 (J)		6.3E-05 (J)	0.0007 (J)	
8/13/2020		0.00092 (J)			
9/22/2020			4.8E-05 (J)		0.00015 (J)
9/23/2020	0.00053 (J)	0.001 (J)		0.00011 (J)	
3/2/2021			8E-05 (J)	0.00027 (J)	0.00028 (J)
3/3/2021	0.0007 (J)	0.0011			
9/10/2021	<0.001	0.00099 (J)	<0.001		<0.005
9/13/2021				<0.001	
1/21/2022	<0.001				
1/24/2022		0.0011	<0.001		
1/25/2022				<0.001	
1/26/2022					<0.005
9/13/2022	<0.001	0.00093 (J)			
9/14/2022			<0.001		
9/15/2022				<0.001	
9/19/2022					<0.005
2/3/2023	<0.001	<0.001			<0.005
2/7/2023			<0.001	<0.001	
9/12/2023	0.00024 (J)			<0.001	
9/13/2023		0.00082 (J)	<0.001		
2/1/2024			<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/5/2024	0.00029 (J)	0.00077 (J)			
9/5/2024	0.00034 (J)				
9/6/2024			0.00023 (J)		
9/9/2024				<0.001	
9/10/2024		0.00086 (J)			
9/11/2024					<0.005
Mean	0.0009562	0.001283	0.0006804	0.0007391	0.004242
Std. Dev.	0.0009668	0.0007399	0.0005973	0.0003841	0.001798
Upper Lim.	0.001	0.001581	0.001	0.001	0.005
Lower Lim.	0.0005	0.0008734	8E-05	0.00027	0.00028

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	0.0013 (J)					
9/25/2020	0.0027 (J)					
12/9/2020				0.039 (J)		0.017 (J)
12/17/2020			0.012 (J)		0.0048 (J)	
1/11/2021			0.015 (J)			
1/12/2021		0.012 (J)		0.039		
3/4/2021			0.014 (J)	0.038	0.0054 (J)	0.015 (J)
3/5/2021		0.015 (J)				
3/8/2021	0.0024 (J)					
9/10/2021			0.012 (J)			
9/13/2021	0.0022 (J)	0.011 (J)			0.0056 (J)	0.014 (J)
9/14/2021				0.036		
1/21/2022	0.0021 (J)					
1/24/2022				0.036		0.015 (J)
1/25/2022					0.0055 (J)	
1/26/2022		0.0098 (J)				
1/27/2022			0.013 (J)			
9/8/2022	0.0023 (J)					
9/13/2022				0.04		
9/14/2022						0.015 (J)
9/15/2022			0.013 (J)			
9/16/2022		0.011 (J)			0.0054 (J)	
2/2/2023	<0.03		0.011 (J)			
2/3/2023		0.008 (J)		0.037		
2/6/2023						0.014 (J)
2/7/2023					0.0053 (J)	
9/6/2023	0.0023 (J)					
9/8/2023		0.015 (J)				
9/11/2023			0.0091 (J)		0.0045 (J)	
9/12/2023						0.012 (J)
9/13/2023				0.04		
1/31/2024	<0.03					
2/1/2024						0.014 (J)
2/2/2024		0.015 (J)	0.01 (J)		0.0051 (J)	
2/5/2024				0.037		
9/5/2024	0.0019 (J)					
9/9/2024					0.0051 (J)	0.012 (J)
9/10/2024		0.015 (J)	0.01 (J)	0.034		
Mean	0.00772	0.01242	0.01191	0.0376	0.005189	0.01422
Std. Dev.	0.01175	0.002675	0.001895	0.001955	0.0003551	0.001563
Upper Lim.	0.03	0.015	0.0136	0.03934	0.005532	0.01573
Lower Lim.	0.0019	0.008	0.01022	0.03586	0.004846	0.01271

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	B-56	B-62
1/30/2019						<0.05
9/11/2019						0.0078 (J)
10/21/2019						0.0078 (J)
8/13/2020						0.0087 (J)
8/17/2020					0.0056 (J)	
9/24/2020						0.0084 (J)
9/28/2020					0.005 (J)	
12/9/2020	0.016 (J)	0.021 (J)				
1/12/2021		0.021 (J)				
3/3/2021					0.0051 (J)	
3/4/2021	0.014 (J)					
3/5/2021		0.028 (J)				
3/12/2021						0.0087 (J)
4/15/2021			0.088			
9/9/2021						0.0094 (J)
9/13/2021					0.0055 (J)	
9/14/2021	0.015 (J)	0.029 (J)	0.077			
1/20/2022			0.079			0.0092 (J)
1/24/2022	0.014 (J)	0.026 (J)				
1/27/2022					0.0061 (J)	
6/6/2022				0.013 (J)		
9/8/2022						0.0085 (J)
9/14/2022		0.02 (J)				
9/15/2022	0.016 (J)					
9/16/2022					0.0057 (J)	
9/19/2022			0.076			
2/2/2023						0.0082 (J)
2/3/2023			0.068			
2/6/2023				0.014 (J)		
2/7/2023	0.014 (J)	0.018 (J)			0.0054 (J)	
9/7/2023				0.013 (J)		0.0092 (J)
9/8/2023					0.0055 (J)	
9/12/2023			0.044			
9/13/2023	0.014 (J)	0.019 (J)				
2/1/2024	0.015 (J)			0.013 (J)		0.0094 (J)
2/5/2024		0.022 (J)	0.057		0.0061 (J)	
9/9/2024	0.013 (J)	0.019 (J)	0.052			0.0093 (J)
9/10/2024				0.013 (J)		
9/11/2024					0.0056 (J)	
Mean	0.01456	0.0223	0.06763	0.0132	0.00556	0.009969
Std. Dev.	0.001014	0.003945	0.0152	0.0004472	0.0003596	0.004551
Upper Lim.	0.01553	0.02582	0.08374	0.014	0.005881	0.0094
Lower Lim.	0.01358	0.01878	0.05151	0.013	0.005239	0.0082

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88
1/28/2019	<0.05					
1/30/2019		<0.03				
9/11/2019	0.0064 (J)					
9/12/2019		<0.03				
9/18/2019			0.0047 (J)			
9/23/2019				0.0039 (J)		
10/21/2019		<0.03		0.0036 (J)	0.003 (J)	
10/22/2019	0.0062 (J)					
10/24/2019			0.0036 (J)			
8/13/2020			0.0018 (J)			
8/14/2020					0.0045 (J)	
8/17/2020				0.0016 (J)		0.006 (J)
9/24/2020			0.00095 (J)			
9/25/2020					0.0018 (J)	0.0016 (J)
9/28/2020				0.001 (J)		
3/4/2021			0.0011 (J)		0.0024 (J)	
3/5/2021						0.029 (J)
3/12/2021	0.0066 (J)					
9/13/2021						0.0017 (J)
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)		
9/16/2021					0.0021 (J)	
1/20/2022	0.0062 (J)		<0.03			
1/21/2022					0.0022 (J)	
1/25/2022		0.00073 (J)		0.00082 (J)		
1/27/2022						0.0066 (J)
9/13/2022			0.0021 (JD)		0.0027 (J)	
9/14/2022	0.0072 (JD)					
9/16/2022		<0.03		0.00078 (J)		0.0021 (J)
2/2/2023	0.0045 (J)					
2/3/2023					0.0025 (J)	
2/6/2023			<0.03			
2/7/2023		<0.03		0.00073 (J)		0.0071 (J)
9/7/2023	0.0069 (J)					
9/11/2023		<0.03		<0.03		
9/12/2023			<0.03		0.0021 (J)	0.004 (J)
2/1/2024	0.0052 (J)	<0.03		<0.03	0.0023 (J)	
2/5/2024			<0.03			0.0044 (J)
9/6/2024	0.005 (J)				0.0019 (J)	
9/9/2024		<0.03		<0.03		
9/10/2024						0.013 (J)
9/11/2024			<0.03			
Mean	0.007782	0.02707	0.01619	0.009403	0.0025	0.00755
Std. Dev.	0.00577	0.009256	0.01446	0.01327	0.0007483	0.008268
Upper Lim.	0.0072	0.03	0.03	0.03	0.002989	0.01291
Lower Lim.	0.005	0.03	0.0011	0.00078	0.00196	0.001861

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	B-93	B-97	B-98	DGWC-10	DGWC-11
8/31/2016					0.0022 (J)	0.0022 (J)
12/6/2016					<0.05	0.0027 (J)
3/29/2017					0.002 (J)	0.0021 (J)
7/12/2017					0.0019 (J)	0.0022 (J)
10/24/2017					0.0022 (J)	0.0024 (J)
2/27/2018					0.0037 (J)	0.0022 (J)
11/6/2018					<0.05	<0.05
8/27/2019					0.0053 (J)	0.0023 (J)
10/15/2019					0.0051 (J)	0.0019 (J)
3/2/2020						0.0023 (J)
3/3/2020					0.0049 (J)	
8/11/2020					0.0033 (J)	0.0028 (J)
8/19/2020		0.011 (J)				
9/22/2020						0.0019 (J)
9/24/2020					0.0049 (J)	
9/28/2020		0.011 (J)				
3/2/2021						0.0017 (J)
3/4/2021					0.0042 (J)	
3/9/2021		0.012 (J)				
9/9/2021						0.0029 (J)
9/10/2021					0.0051 (J)	
9/15/2021	0.012 (J)	0.011 (J)	0.0042 (J)	0.0012 (J)		
1/25/2022						0.0021 (J)
1/26/2022	0.015 (J)	0.013 (J)	0.0047 (J)	0.0013 (J)	0.0059 (J)	
9/12/2022	0.015 (J)	0.013 (J)				
9/13/2022			0.0052 (J)	0.0011 (J)		
9/15/2022					0.0053 (J)	0.0024 (J)
1/31/2023	0.014 (J)	0.011 (J)		0.00089 (J)		
2/1/2023			0.0048 (J)			
2/2/2023					0.0049 (J)	
2/6/2023						0.0018 (J)
9/6/2023	0.0095 (J)	0.013 (J)	0.0045 (J)	0.00097 (J)		
9/8/2023						0.0017 (J)
9/11/2023					0.0043 (J)	
1/30/2024	0.014 (J)	0.01 (J)		<0.03		
1/31/2024			0.0046 (J)			
2/1/2024						0.0016 (J)
2/2/2024					0.0042 (J)	
9/4/2024	0.013 (J)	0.0095 (J)	0.0049 (J)			
9/5/2024				0.0021 (J)		
9/9/2024						0.0021 (J)
9/11/2024					0.0054 (J)	
Mean	0.01321	0.01145	0.0047	0.003223	0.00624	0.003315
Std. Dev.	0.001955	0.001257	0.0003162	0.005209	0.006534	0.005117
Upper Lim.	0.01554	0.01257	0.005076	0.015	0.0053	0.0024
Lower Lim.	0.01089	0.01033	0.004324	0.00089	0.0033	0.0019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016			0.0031 (J)			
9/1/2016	<0.03					0.0034 (J)
9/6/2016		0.0029 (J)		0.0064 (J)		
9/7/2016					<0.03	
12/6/2016			0.0042 (J)			
12/7/2016	<0.03	0.003 (J)		0.0066 (J)		0.0034 (J)
12/8/2016					<0.03	
3/29/2017	<0.03		0.0041 (J)			0.0031 (J)
3/30/2017		0.0035 (J)		0.0061 (J)	<0.03	
7/12/2017	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)	<0.03	0.0032 (J)
10/25/2017	<0.03		0.0032 (J)	0.0061 (J)	<0.03	0.0031 (J)
11/15/2017		0.0028 (J)				
2/27/2018	0.00097 (J)		0.0035 (J)			
2/28/2018		<0.05		0.0062 (J)	<0.03	0.0031 (J)
7/11/2018	<0.03		0.0034 (J)	0.0058 (J)	<0.03	0.0034 (J)
11/7/2018	<0.03	<0.05	<0.05	<0.05 (O)	<0.03	<0.05
8/27/2019	0.0011 (J)		0.0038 (J)		0.00089 (J)	
8/28/2019		0.0033 (J)		0.0063 (J)		0.0032 (J)
9/17/2019	0.0011 (J)					
10/15/2019	0.00091 (J)					
10/16/2019		0.0029 (J)	0.0032 (J)			0.0026 (J)
10/17/2019				0.0064 (J)		
10/18/2019					0.00096 (J)	
3/2/2020	<0.03					
3/3/2020		0.0035 (J)	0.008 (J)	0.0059 (J)		0.0034 (J)
3/4/2020					0.0011 (J)	
8/11/2020	0.0011 (J)		0.0035 (J)			0.0031 (J)
8/12/2020		0.0034 (J)				
8/13/2020				0.0089 (J)		
8/14/2020					0.0015 (J)	
9/22/2020	<0.03		0.0038 (J)			0.0034 (J)
9/23/2020		0.0033 (J)		0.006 (J)		
9/24/2020					0.00096 (J)	
3/2/2021		0.0033 (J)	0.004 (J)	0.0051 (J)		0.003 (J)
3/3/2021	<0.03				0.0011 (J)	
9/9/2021	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)		0.0035 (J)
9/13/2021					<0.03	
1/24/2022				0.0051 (J)	<0.03	
1/25/2022	<0.03	0.0037 (J)	0.0043 (J)			0.0031 (J)
9/13/2022			0.0043 (J)	0.0057 (J)		
9/14/2022					<0.03	0.0032 (J)
9/15/2022	0.00088 (J)	0.004 (J)				
2/1/2023		0.0031 (J)	0.018 (J)			
2/2/2023				0.005 (J)		
2/6/2023	<0.03				<0.03	0.0026 (J)
9/8/2023		0.0031 (J)	0.0041 (J)	0.0051 (J)		0.0024 (J)
9/11/2023	<0.03					
9/13/2023					<0.03	
1/31/2024		0.0035 (J)				
2/1/2024						0.0024 (J)
2/2/2024	<0.03					
2/5/2024			0.0046 (J)	0.0059 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
2/6/2024					<0.03	
9/5/2024	<0.03	0.003 (J)		0.0052 (J)		0.0025 (J)
9/10/2024			0.0044 (J)		<0.03	
Mean	0.02209	0.005435	0.005738	0.005975	0.02174	0.0041
Std. Dev.	0.01321	0.006699	0.005448	0.0008441	0.01339	0.004802
Upper Lim.	0.03	0.0036	0.0044	0.0063	0.03	0.0034
Lower Lim.	0.0011	0.003	0.0035	0.0052	0.0011	0.0026

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/2/2016		0.0021 (J)	0.0057 (J)	0.0046 (J)		
12/7/2016		0.005 (J)				
12/8/2016			0.0054 (J)	0.0047 (J)		
3/28/2017						0.0031 (J)
3/29/2017		0.0021 (J)		0.0043 (J)		
3/30/2017	0.0807		0.0065 (J)		0.0162 (J)	
5/11/2017	0.085					
5/12/2017					0.0036 (J)	0.0027 (J)
6/15/2017	0.0781				0.0063 (J)	0.0025 (J)
7/11/2017	0.0731					0.0022 (J)
7/12/2017		0.0019 (J)	0.0057 (J)		0.0068 (J)	
7/13/2017				0.0044 (J)		
10/24/2017	0.0995					0.0024 (J)
10/25/2017		0.0022 (J)	0.006 (J)	0.0042 (J)		
10/26/2017					0.0049 (J)	
2/27/2018	0.0875					0.0027 (J)
2/28/2018		0.0019 (J)	0.0061 (J)	0.0043 (J)		
3/1/2018					0.0759	
7/11/2018	0.033 (J)	0.0022 (J)	0.0057 (J)			
7/12/2018				0.0036 (J)	0.0047 (J)	
11/6/2018	<0.05					<0.05
11/7/2018		<0.05	<0.05	<0.05		
11/8/2018					<0.05	
8/27/2019	0.032					0.0033 (J)
8/29/2019		0.0093 (J)	0.0061 (J)	0.0035 (J)	0.0017 (J)	
10/15/2019						0.0029 (J)
10/17/2019	0.029 (J)	0.0075 (J)	0.0063 (J)			
10/18/2019				0.0041 (J)	0.0039 (J)	
3/2/2020						0.0035 (J)
3/3/2020	0.026 (J)		0.0065 (J)	0.0046 (J)		
3/4/2020		0.019 (J)			0.004 (J)	
8/11/2020	0.028 (J)					
8/12/2020						0.0031 (J)
8/13/2020		0.012 (J)			0.0052 (J)	
8/14/2020			0.0058 (J)	0.0039 (J)		
9/22/2020		0.0026 (J)				0.0026 (J)
9/23/2020	0.022 (J)					
9/24/2020			0.0062 (J)	0.0037 (J)	0.0045 (J)	
3/1/2021						0.0035 (J)
3/2/2021	0.023 (J)	0.011 (J)				
3/3/2021			0.0054 (J)	0.0038 (J)	0.014 (J)	
9/9/2021	0.024 (J)		0.006 (J)		0.0081 (J)	
9/10/2021		0.0023 (J)		0.0039 (J)		0.0035 (J)
1/20/2022	0.024 (J)		0.0058 (J)	0.0032 (J)	0.0029 (J)	
1/21/2022		0.012 (J)				
1/24/2022						0.0038 (J)
9/15/2022		0.0096 (J)	0.0069 (J)			
9/16/2022				0.0033 (J)		
9/19/2022						0.0037 (J)
9/20/2022	0.021 (J)				0.0051 (J)	
2/3/2023						0.0036 (J)
2/6/2023	0.017 (J)			0.0034 (J)	0.0022 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
2/7/2023		0.013 (J)	0.0056 (J)			
9/11/2023		0.011 (J)	0.0055 (J)	0.0031 (J)	0.0036 (J)	
9/13/2023	0.017 (J)					0.004 (J)
1/31/2024			0.0065 (J)	0.0037 (J)	0.0024 (J)	
2/1/2024	0.017 (J)	0.012 (J)				0.0038 (J)
9/4/2024			0.0057 (J)			
9/5/2024		0.015 (J)			0.0048 (J)	
9/6/2024						0.0035 (J)
9/9/2024	0.016 (J)			0.0035 (J)		
Mean	0.04085	0.00851	0.006876	0.004895	0.0098	0.00427
Std. Dev.	0.02869	0.006446	0.004172	0.004631	0.01613	0.004907
Upper Lim.	0.0781	0.01207	0.0063	0.0044	0.009392	0.0037
Lower Lim.	0.021	0.004954	0.0056	0.0035	0.003569	0.0027

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.005 (J)	0.0212 (J)
8/31/2016				0.0026 (J)		
9/1/2016		0.0854	0.125			
9/7/2016	0.012 (J)					
12/6/2016				0.0046 (J)	0.0066 (J)	0.0242 (J)
12/8/2016	0.0118 (J)	0.0667	0.122			
3/28/2017				0.0028 (J)		0.0249 (J)
3/29/2017					0.0059 (J)	
3/30/2017			0.144			
3/31/2017	0.0119 (J)	0.0767				
7/11/2017				0.0031 (J)	0.0045 (J)	0.022 (J)
7/13/2017	0.0116 (J)	0.0743	0.143			
10/24/2017					0.0072 (J)	0.0281 (J)
10/25/2017	0.0122 (J)			0.0055 (J)		
10/26/2017		0.071	0.115			
2/27/2018				0.0066 (J)	0.0075 (J)	0.031 (J)
2/28/2018	0.0122 (J)					
3/1/2018		0.0772				
3/2/2018			0.129			
7/11/2018	0.01 (J)					0.028 (J)
7/12/2018		0.073	0.12			
11/6/2018				<0.05	<0.05	<0.05
11/7/2018	<0.05	0.082	0.12			
8/27/2019				0.008 (J)		0.031
8/28/2019	0.01 (J)				0.0048 (J)	
8/29/2019		0.056	0.11			
10/16/2019				0.006 (J)	0.0045 (J)	
10/17/2019	0.011 (J)	0.066				0.029 (J)
10/18/2019			0.11			
3/2/2020				0.0079 (J)		
3/3/2020					0.0052 (J)	0.028 (J)
3/4/2020	0.0091 (J)	0.063	0.12			
8/11/2020						0.032
8/12/2020		0.054		0.0067 (J)	0.0058 (J)	
8/13/2020	0.011 (J)		0.098			
9/22/2020	0.0099 (J)			0.0065 (J)		0.025 (J)
9/23/2020		0.046	0.1		0.0045 (J)	
3/2/2021				0.0064 (J)	0.0046 (J)	0.028 (J)
3/3/2021	0.0079 (J)	0.049	0.096			
9/10/2021		0.053	0.095	0.0071 (J)		0.027 (J)
9/13/2021	0.015 (J)				0.0034 (J)	
1/20/2022	0.0069 (J)					
1/21/2022		0.055				
1/24/2022			0.11	0.0068 (J)		
1/25/2022					0.0032 (J)	
1/26/2022						0.029 (J)
9/13/2022	0.0091 (J)	0.05	0.099			
9/14/2022				0.0081 (J)		
9/15/2022					0.0039 (J)	
9/19/2022						0.023 (J)
2/1/2023	0.0068 (J)					
2/3/2023		0.048	0.089			0.025 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/7/2023				0.0072 (J)	0.0036 (J)	
9/12/2023		0.034			0.0045 (J)	
9/13/2023	0.0087 (J)		0.096	0.0081 (J)		
1/30/2024	0.0078 (J)					
2/1/2024				0.0075 (J)	0.0031 (J)	
2/5/2024		0.046	0.083			
9/5/2024	0.0099 (J)	0.044				
9/6/2024				0.0072 (J)		
9/9/2024					0.0036 (J)	
9/10/2024			0.09			
9/11/2024						0.022 (J)
Mean	0.01094	0.06049	0.1102	0.007185	0.00582	0.02649
Std. Dev.	0.0038	0.01431	0.0171	0.004531	0.004687	0.003234
Upper Lim.	0.01226	0.06839	0.1196	0.0079	0.0059	0.02839
Lower Lim.	0.008965	0.05259	0.1008	0.0055	0.0036	0.0246

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
3/16/2023	0.074
3/21/2023	0.078
4/10/2023	0.034
9/14/2023	0.031
2/5/2024	0.028 (J)
9/9/2024	0.029 (J)
Mean	0.04567
Std. Dev.	0.02362
Upper Lim.	0.078
Lower Lim.	0.028

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-104D	B-107D	B-108D	B-111D
8/17/2020	0.00011 (J)					
9/25/2020	<0.0002					
12/9/2020			7.9E-05 (J)	0.00016 (J)	0.00014 (J)	9.4E-05 (J)
1/12/2021		<0.0002	<0.0002			<0.0002
3/4/2021			<0.0002	<0.0002	<0.0002	
3/5/2021		0.00014 (J)				<0.0002
9/13/2021	<0.0002	<0.0002		<0.0002		
9/14/2021			<0.0002		<0.0002	<0.0002
1/21/2022	<0.0002					
1/24/2022			<0.0002	<0.0002	<0.0002	<0.0002
1/26/2022		<0.0002				
9/8/2022	<0.0002					
9/13/2022			<0.0002			
9/14/2022				<0.0002		<0.0002
9/15/2022					<0.0002	
9/16/2022		<0.0002				
2/2/2023	<0.0002					
2/3/2023		0.00029	<0.0002			
2/6/2023				<0.0002		
2/7/2023					<0.0002	<0.0002
9/6/2023	<0.0002					
9/8/2023		<0.0002				
9/12/2023				<0.0002		
9/13/2023			<0.0002		<0.0002	<0.0002
1/31/2024	<0.0002					
2/1/2024				<0.0002	<0.0002	
2/2/2024		<0.0002				
2/5/2024			<0.0002			<0.0002
9/5/2024	<0.0002					
9/9/2024				<0.0002	<0.0002	<0.0002
9/10/2024		<0.0002	<0.0002			
Mean	0.00019	0.0002033	0.0001879	0.0001956	0.0001933	0.0001894
Std. Dev.	3E-05	3.808E-05	3.826E-05	1.333E-05	2E-05	3.352E-05
Upper Lim.	0.0002	0.00029	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00011	0.00014	0.0002	0.00016	0.00014	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-66	B-82	B-88	B-92	B-93
1/30/2019		<0.0002				
9/12/2019		<0.0002				
9/23/2019			<0.0002			
10/21/2019		<0.0002	<0.0002			
8/17/2020	0.00016 (J)		0.00011 (J)	0.00011 (J)		
8/19/2020						0.00026
9/25/2020				<0.0002		
9/28/2020	<0.0002		<0.0002			0.00024 (J)
3/3/2021	<0.0002					
3/5/2021				0.0001 (J)		
3/9/2021						0.00015 (J)
9/13/2021	<0.0002			<0.0002		
9/14/2021		<0.0002	<0.0002			
9/15/2021					0.00017 (J)	9.8E-05 (J)
1/25/2022		<0.0002	<0.0002			
1/26/2022					<0.0002	<0.0002
1/27/2022	<0.0002			<0.0002		
9/12/2022					0.00015 (J)	0.00016 (J)
9/16/2022	<0.0002	<0.0002	<0.0002	<0.0002		
1/31/2023					0.00017 (J)	<0.0002
2/7/2023	0.00034	0.00029	<0.0002	<0.0002		
9/6/2023					<0.0002	<0.0002
9/8/2023	<0.0002					
9/11/2023		<0.0002	<0.0002			
9/12/2023				<0.0002		
1/30/2024					0.00015 (J)	0.00013 (J)
2/1/2024		<0.0002	<0.0002			
2/5/2024	0.00029			<0.0002		
9/4/2024					<0.0002	<0.0002
9/9/2024		<0.0002	<0.0002			
9/10/2024				<0.0002		
9/11/2024	<0.0002					
Mean	0.000219	0.000209	0.0001918	0.000181	0.0001771	0.0001838
Std. Dev.	5.343E-05	2.846E-05	2.714E-05	4.012E-05	2.289E-05	4.942E-05
Upper Lim.	0.00029	0.0002	0.0002	0.0002	0.0002	0.0002031
Lower Lim.	0.0002	0.0002	0.0002	0.00011	0.00015	0.0001121

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
1/24/2022						<0.0002
1/25/2022		<0.0002	<0.0002	<0.0002	<0.0002	
1/26/2022	<0.0002					
9/13/2022					<0.0002	<0.0002
9/15/2022	<0.0002	<0.0002	<0.0002	<0.0002		
2/1/2023				<0.0002	<0.0002	
2/2/2023	<0.0002					<0.0002
2/6/2023		<0.0002	<0.0002			
9/8/2023		0.00048		<0.0002	<0.0002	<0.0002
9/11/2023	0.0021		<0.0002			
1/31/2024				<0.0002		
2/1/2024		<0.0002				
2/2/2024	<0.0002		<0.0002			
2/5/2024					<0.0002	<0.0002
9/5/2024			<0.0002	<0.0002		<0.0002
9/9/2024		<0.0002				
9/10/2024					<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/11/2024	<0.0002					
Mean	0.000271	0.0001935	0.0001666	0.000188	0.0001805	0.0001933
Std. Dev.	0.0004333	8.4E-05	5.843E-05	3.708E-05	4.924E-05	3.055E-05
Upper Lim.	0.0021	0.00048	0.0002	0.0002	0.0002	0.0002
Lower Lim.	9E-05	8E-05	0.00014	9E-05	8E-05	6E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
1/20/2022			<0.0002		<0.0002	<0.0002
1/21/2022				<0.0002		
1/24/2022	<0.0002					
1/25/2022		<0.0002				
9/14/2022	<0.0002	<0.0002				
9/15/2022				<0.0002	<0.0002	
9/16/2022						<0.0002
9/20/2022			<0.0002			
2/6/2023	0.00014 (J)	0.00013 (J)	<0.0002			0.00014 (J)
2/7/2023				<0.0002	<0.0002	
9/8/2023		<0.0002				
9/11/2023				<0.0002	<0.0002	<0.0002
9/13/2023	<0.0002		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
1/31/2024					<0.0002	<0.0002
2/1/2024		<0.0002	<0.0002	<0.0002		
2/6/2024	<0.0002					
9/4/2024					<0.0002	
9/5/2024		<0.0002		<0.0002		
9/9/2024			<0.0002			<0.0002
9/10/2024	<0.0002					
Mean	0.0001546	0.0001767	0.0002035	0.0001833	0.00017	0.000174
Std. Dev.	5.924E-05	5.18E-05	0.0001092	4.187E-05	5.639E-05	5.054E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	8.6E-05	0.00013	8.3E-05	9E-05	0.00012	0.00014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
1/20/2022	<0.0002		<0.0002			
1/24/2022		0.00022		<0.0002	0.00028	
1/25/2022						<0.0002
9/13/2022			<0.0002	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
9/14/2022					0.00022	
9/15/2022						<0.0002
9/19/2022		<0.0002				
9/20/2022	<0.0002					
2/1/2023			<0.0002			
2/3/2023		<0.0002		<0.0002		
2/6/2023	<0.0002					
2/7/2023					0.00026	<0.0002
9/11/2023	<0.0002					
9/12/2023						0.00013 (J)
9/13/2023		<0.0002	<0.0002	<0.0002	0.00028	
1/30/2024			<0.0002			
1/31/2024	<0.0002					
2/1/2024		<0.0002			0.00024	<0.0002
2/5/2024				<0.0002		
9/5/2024	<0.0002		<0.0002			
9/6/2024		<0.0002			0.00025	
9/9/2024						<0.0002
9/10/2024				<0.0002		
Mean	0.0001895	0.0002051	0.0001924	0.0001933	0.0002012	0.000161
Std. Dev.	4.842E-05	9.873E-05	3.491E-05	3.055E-05	0.0001079	5.725E-05
Upper Lim.	0.0002	0.00022	0.0002	0.0002	0.0002482	0.0002
Lower Lim.	0.00015	0.00013	4E-05	6E-05	0.0001389	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
8/30/2016	<0.0002
12/6/2016	5E-05 (J)
3/28/2017	<0.0002
7/11/2017	<0.0002
10/24/2017	<0.0002
2/27/2018	4.2E-05 (J)
7/11/2018	<0.0002
11/6/2018	<0.0002
8/27/2019	0.00021 (J)
10/17/2019	0.00042 (J)
3/3/2020	<0.0002
8/11/2020	0.00026
9/22/2020	0.00013 (J)
3/2/2021	0.00017 (J)
9/10/2021	0.00014 (J)
1/26/2022	0.00014 (J)
9/19/2022	0.0002
2/3/2023	0.00017 (J)
9/11/2024	<0.0002
Mean	0.0001859
Std. Dev.	7.806E-05
Upper Lim.	0.0002
Lower Lim.	0.00014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-108D	B-111D
8/17/2020	<0.01					
9/25/2020	<0.01					
12/9/2020				0.0012 (J)	<0.01	0.0055 (J)
12/17/2020			<0.01			
1/11/2021			<0.01			
1/12/2021		0.0022 (J)		<0.01		0.0054 (J)
3/4/2021			<0.01	<0.01	<0.01	
3/5/2021		<0.01				0.0067 (J)
3/8/2021	<0.01					
9/10/2021			<0.01			
9/13/2021	<0.01	<0.01				
9/14/2021				<0.01	<0.01	0.013
1/21/2022	<0.01					
1/24/2022				0.00083 (J)	<0.01	0.0052 (J)
1/26/2022		<0.01				
1/27/2022			<0.01			
9/8/2022	<0.01					
9/13/2022				<0.01		
9/14/2022						0.0069 (J)
9/15/2022			0.0015 (J)		<0.01	
9/16/2022		<0.01				
2/2/2023	0.19		<0.01			
2/3/2023		<0.01		<0.01		
2/7/2023					<0.01	0.0077 (J)
9/6/2023	<0.01					
9/8/2023		<0.01				
9/11/2023			<0.01			
9/13/2023				0.00092 (J)	0.00078 (J)	0.0071 (J)
1/31/2024	<0.01					
2/1/2024					<0.01	
2/2/2024		<0.01	<0.01			
2/5/2024				<0.01		0.01
9/5/2024	<0.01					
9/9/2024					<0.01	0.008 (J)
9/10/2024		<0.01	<0.01	<0.01		
Mean	0.028	0.009133	0.00915	0.007295	0.008976	0.00755
Std. Dev.	0.05692	0.0026	0.002688	0.004356	0.003073	0.002395
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.009687
Lower Lim.	0.01	0.0022	0.01	0.00092	0.00078	0.005413

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-66	B-82	B-88	B-98
1/30/2019			<0.01			
9/12/2019			0.0018 (J)			
9/23/2019				<0.01		
10/21/2019			0.0015 (J)	<0.01		
8/17/2020				<0.01	0.0012 (J)	
9/25/2020					0.0012 (J)	
9/28/2020				<0.01		
3/5/2021					<0.01	
4/15/2021	0.00089 (J)					
9/13/2021					<0.01	
9/14/2021	<0.01		<0.01	<0.01		
9/15/2021						<0.01
1/20/2022	<0.01					
1/25/2022			<0.01	<0.01		
1/26/2022						0.0015 (J)
1/27/2022					<0.01	
6/6/2022		<0.01				
9/13/2022						0.00084 (J)
9/16/2022			<0.01	<0.01	<0.01	
9/19/2022	<0.01					
1/31/2023						0.0014 (J)
2/3/2023	<0.01					
2/6/2023		0.0011 (J)				
2/7/2023			<0.01	<0.01	<0.01	
9/6/2023						0.00075 (J)
9/7/2023		0.001 (J)				
9/11/2023			<0.01	0.00081 (J)		
9/12/2023	<0.01				<0.01	
1/30/2024						0.00095 (J)
2/1/2024		0.0011 (J)	<0.01	<0.01		
2/5/2024	<0.01				<0.01	
9/5/2024						<0.01
9/9/2024	<0.01		<0.01	<0.01		
9/10/2024		0.002 (J)			<0.01	
Mean	0.008861	0.00304	0.00833	0.009165	0.00824	0.003634
Std. Dev.	0.003221	0.003912	0.003521	0.002771	0.00371	0.004357
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.00089	0.001	0.0018	0.01	0.0012	0.00075

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-22	DGWC-23	DGWC-4
9/2/2016			<0.01		
9/6/2016	0.0371				
12/7/2016	0.0273				
12/8/2016			<0.01		
3/28/2017					0.008 (J)
3/29/2017			<0.01		
3/30/2017	0.03	0.0009 (J)		0.0084 (J)	
5/11/2017		0.0009 (J)			
5/12/2017				0.0085 (J)	0.0062 (J)
6/15/2017		<0.01		0.0104	0.0044 (J)
7/11/2017		<0.01			0.0041 (J)
7/12/2017	0.0323			0.0092 (J)	
7/13/2017			<0.01		
10/24/2017		<0.01			0.0072 (J)
10/25/2017			<0.01		
10/26/2017				0.0077 (J)	
11/15/2017	0.0275				
2/27/2018		<0.01			0.0069 (J)
2/28/2018	0.0093 (J)		<0.01		
3/1/2018				0.0045 (J)	
7/11/2018		<0.01			
7/12/2018			<0.01	0.012	
11/6/2018		<0.01			<0.01 (J)
11/7/2018	0.018		<0.01		
11/8/2018				0.012	
8/27/2019		0.002 (J)			0.0065 (J)
8/28/2019	0.015				
8/29/2019			<0.01	0.014	
10/15/2019					0.0061 (J)
10/16/2019	0.014				
10/17/2019		0.0018 (J)			
10/18/2019			<0.01	0.0091 (J)	
3/2/2020					0.0059 (J)
3/3/2020	0.018	0.0022 (J)	<0.01		
3/4/2020				0.0047 (J)	
8/11/2020		0.002 (J)			
8/12/2020	0.012				0.0057 (J)
8/13/2020				0.013	
8/14/2020			<0.01		
9/22/2020					0.0028 (J)
9/23/2020	0.012	0.0022 (J)			
9/24/2020			<0.01	0.0088 (J)	
3/1/2021					0.0051 (J)
3/2/2021	0.011	0.0021 (J)			
3/3/2021			<0.01	0.0026 (J)	
9/9/2021	0.011	0.0023 (J)		0.01	
9/10/2021			<0.01		0.0052 (J)
1/20/2022		0.0022 (J)	<0.01	0.0073 (J)	
1/24/2022					0.0045 (J)
1/25/2022	0.0093 (J)				
9/15/2022	0.0094 (J)				
9/16/2022			<0.01		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-22	DGWC-23	DGWC-4
9/19/2022					0.0037 (J)
9/20/2022		0.0021 (J)		0.0095 (J)	
2/1/2023	0.0085 (J)				
2/3/2023					0.0035 (J)
2/6/2023		0.0021 (J)	<0.01	0.007 (J)	
9/8/2023	0.0073 (J)				
9/11/2023			0.00097 (J)	0.0088 (J)	
9/13/2023		0.0022 (J)			0.0034 (J)
1/31/2024	0.0081 (J)		<0.01	0.0069 (J)	
2/1/2024		0.0024 (J)			0.0027 (J)
9/5/2024	0.0074 (J)			0.0097 (J)	
9/6/2024					0.0029 (J)
9/9/2024		0.0023 (J)	<0.01		
Mean	0.01623	0.004271	0.00957	0.008767	0.00499
Std. Dev.	0.009354	0.003733	0.001971	0.002784	0.001559
Upper Lim.	0.02028	0.01	0.01	0.0103	0.005875
Lower Lim.	0.01069	0.002	0.00097	0.007231	0.004105

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-104D	B-108D	B-111D	B-120D
8/17/2020	<0.005					
9/25/2020	<0.005					
12/9/2020			<0.005	<0.005	<0.005	
1/12/2021		<0.005	0.0016 (J)		<0.005	
3/4/2021			0.0031 (J)	0.0016 (J)		
3/5/2021		0.0031 (J)			0.0022 (J)	
3/8/2021	0.0019 (J)					
4/15/2021						0.0016 (J)
9/13/2021	<0.005	<0.005				
9/14/2021			<0.005	<0.005	<0.005	0.0022 (J)
1/20/2022						0.0021 (J)
1/21/2022	<0.005					
1/24/2022			<0.005	<0.005	<0.005	
1/26/2022		<0.005				
9/8/2022	<0.005					
9/13/2022			<0.005			
9/14/2022					<0.005	
9/15/2022				<0.005		
9/16/2022		<0.005				
9/19/2022						0.0038 (J)
2/2/2023	<0.005					
2/3/2023		<0.005	0.0018 (J)			0.005 (J)
2/7/2023				<0.005	<0.005	
9/6/2023	<0.005					
9/8/2023		<0.005				
9/12/2023						0.0052
9/13/2023			0.0016 (J)	<0.005	<0.005	
1/31/2024	<0.005					
2/1/2024				0.025		
2/2/2024		<0.005				
2/5/2024			0.0015 (J)		<0.005	0.0045 (J)
9/5/2024	<0.005					
9/9/2024				<0.005	<0.005	0.0054
9/10/2024		<0.005	<0.005			
Mean	0.00469	0.004789	0.00346	0.006844	0.00472	0.003725
Std. Dev.	0.0009803	0.0006333	0.001683	0.006901	0.0008854	0.001544
Upper Lim.	0.005	0.005	0.005	0.025	0.005	0.005362
Lower Lim.	0.005	0.0031	0.0016	0.0016	0.005	0.002088

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-77	B-82	B-83	B-88	B-92
9/18/2019		<0.005				
9/23/2019			<0.005			
10/21/2019			0.0016 (J)	0.0082 (J)		
10/24/2019		<0.005				
8/13/2020		<0.005				
8/14/2020				0.015		
8/17/2020	0.011		<0.005		0.0017 (J)	
9/24/2020		<0.005				
9/25/2020				0.019	0.0033 (J)	
9/28/2020	0.029		0.0021 (J)			
3/3/2021	0.013					
3/4/2021		0.0017 (J)		0.024		
3/5/2021					0.0033 (J)	
9/13/2021	0.011				0.0021 (J)	
9/14/2021		<0.005	<0.005			
9/15/2021						0.0067
9/16/2021				0.025		
1/20/2022		<0.005				
1/21/2022				0.027		
1/25/2022			0.002 (J)			
1/26/2022						0.0039 (J)
1/27/2022	0.0066				<0.005	
9/12/2022						0.012
9/13/2022		<0.005		0.024		
9/16/2022	0.01		<0.005		0.002 (J)	
1/31/2023						0.0086
2/3/2023				0.021		
2/6/2023		<0.005				
2/7/2023	0.01		0.0025 (J)		0.0024 (J)	
9/6/2023						0.0049 (J)
9/8/2023	0.0087					
9/11/2023			0.0018 (J)			
9/12/2023		<0.005		0.02	0.0027 (J)	
1/30/2024						0.019
2/1/2024			0.0028 (J)	0.017		
2/5/2024	0.02	<0.005			0.0039 (J)	
9/4/2024						0.0051
9/6/2024				0.012		
9/9/2024			0.0017 (J)			
9/10/2024					0.0018 (J)	
9/11/2024	0.013	<0.005				
Mean	0.01323	0.004725	0.003136	0.01929	0.00257	0.0086
Std. Dev.	0.006582	0.0009526	0.001516	0.005828	0.0007288	0.005344
Upper Lim.	0.01832	0.005	0.005	0.02415	0.00322	0.01495
Lower Lim.	0.008001	0.0017	0.0017	0.01443	0.00192	0.002252

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98	DGWC-10	DGWC-12	DGWC-13
8/31/2016				0.0366		
9/1/2016					0.0017 (J)	
9/6/2016						0.0011 (J)
12/6/2016				0.0026 (J)		
12/7/2016					<0.005	0.0015 (J)
3/29/2017				0.0286	0.0017 (J)	
3/30/2017						0.0015 (J)
7/12/2017				0.0257	0.0019 (J)	<0.01
10/24/2017				0.0281		
10/25/2017					0.0024 (J)	
11/15/2017						0.0019 (J)
2/27/2018				0.0667	<0.005	
2/28/2018						<0.01
7/11/2018					<0.005	
11/6/2018				0.049		
11/7/2018					<0.01 (J)	<0.01 (J)
8/27/2019				0.015	<0.005	
8/28/2019						0.0039 (J)
9/17/2019					0.0014 (J)	
10/15/2019				0.071	0.0019 (J)	
10/16/2019						0.0031 (J)
3/2/2020					<0.005	
3/3/2020				0.021		0.0062 (J)
8/11/2020				0.023	0.0019 (J)	
8/12/2020						0.0038 (J)
8/19/2020	0.018					
9/22/2020					<0.005	
9/23/2020						0.0053 (J)
9/24/2020				0.074		
9/28/2020	0.036					
3/2/2021						0.006
3/3/2021					<0.005	
3/4/2021				0.05		
3/9/2021	0.0099 (J)					
9/9/2021					<0.005	0.006
9/10/2021				0.034		
9/15/2021	0.0076	0.0024 (J)	0.0033 (J)			
1/25/2022					<0.005	0.006
1/26/2022	0.0063	0.0015 (J)	<0.005	0.015		
9/12/2022	0.013					
9/13/2022		0.0032 (J)	<0.005			
9/15/2022				0.02	<0.005	0.004 (J)
1/31/2023	0.013		<0.005			
2/1/2023		0.0036 (J)				0.0036 (J)
2/2/2023				0.015		
2/6/2023					<0.005	
9/6/2023	0.0071	0.0031 (J)	<0.005			
9/8/2023						0.0029 (J)
9/11/2023				0.038	<0.005	
1/30/2024	0.0063		<0.005			
1/31/2024		0.0032 (J)				0.0039 (J)
2/2/2024				0.031	<0.005	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98	DGWC-10	DGWC-12	DGWC-13
9/4/2024	0.0023 (J)	0.0022 (J)				
9/5/2024			<0.005		<0.005	0.0023 (J)
9/11/2024				0.17		
Mean	0.01195	0.002743	0.004757	0.04072	0.004223	0.00465
Std. Dev.	0.00955	0.0007345	0.0006425	0.03615	0.001977	0.002796
Upper Lim.	0.01891	0.003615	0.005	0.05329	0.005	0.006238
Lower Lim.	0.004679	0.00187	0.0033	0.0209	0.0019	0.003062

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
8/31/2016	0.0016 (J)					
9/1/2016				0.0093 (J)		
9/2/2016						0.0671
9/6/2016		<0.005				
9/7/2016			0.007 (J)			
12/6/2016	<0.005					
12/7/2016		<0.005		<0.01		0.0056 (J)
12/8/2016			0.0087 (J)			
3/29/2017	<0.005			0.0071 (J)		0.0521
3/30/2017		<0.005	0.0099 (J)		<0.005	
5/11/2017					<0.005	
6/15/2017					<0.005	
7/11/2017					<0.005	
7/12/2017	<0.005	<0.005	0.0072 (J)	0.0065 (J)		0.0483
10/24/2017					<0.005	
10/25/2017	<0.005	<0.005	0.0078 (J)	0.0087 (J)		0.0506
2/27/2018	<0.005				<0.005	
2/28/2018		<0.005	<0.01	0.0114		0.0755
7/11/2018	0.002 (J)	<0.005	0.007 (J)	0.0036 (J)	0.0045 (J)	0.022
11/6/2018					<0.01 (J)	
11/7/2018	<0.01 (J)	<0.01 (J)	<0.01	<0.01 (J)		0.044
8/27/2019	<0.005		0.0073 (J)		0.0069 (J)	
8/28/2019		<0.005		0.004 (J)		
8/29/2019						0.029
10/16/2019	0.0017 (J)			0.006 (J)		
10/17/2019		<0.005			0.0051 (J)	0.071
10/18/2019			0.0093 (J)			
3/3/2020	0.0014 (J)	<0.005		0.0066 (J)	0.0047 (J)	
3/4/2020			0.0074 (J)			0.071
8/11/2020	<0.005			0.0096 (J)	0.0053 (J)	
8/13/2020		0.0018 (J)				0.091
8/14/2020			0.0084 (J)			
9/22/2020	<0.005			0.0052 (J)		0.023
9/23/2020		<0.005			0.0046 (J)	
9/24/2020			0.015			
3/2/2021	<0.005	<0.005		0.0091	0.0037 (J)	0.078
3/3/2021			0.0072			
9/9/2021	0.0017 (J)	<0.005		0.0083	0.0031 (J)	
9/10/2021						0.031
9/13/2021			0.0071			
1/20/2022					0.0031 (J)	
1/21/2022						0.041
1/24/2022		<0.005	0.0064			
1/25/2022	0.0016 (J)			0.0029 (J)		
9/13/2022	<0.005	<0.005				
9/14/2022			0.0064	0.0073		
9/15/2022						0.062
9/20/2022					0.0018 (J)	
2/1/2023	0.0014 (J)					
2/2/2023		<0.005				
2/6/2023			0.0057	0.0042 (J)	0.0014 (J)	
2/7/2023						0.057

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2	DGWC-20
9/8/2023	0.0015 (J)	<0.005		0.0045 (J)		
9/11/2023						0.14
9/13/2023			0.0065		<0.005	
2/1/2024				0.0051	0.0014 (J)	0.082
2/5/2024	0.0019 (J)	0.001 (J)				
2/6/2024			0.0081			
9/5/2024		<0.005		0.0032 (J)		0.09
9/9/2024					0.0015 (J)	
9/10/2024	0.0015 (J)		0.007			
Mean	0.003633	0.004895	0.00759	0.006314	0.004386	0.05863
Std. Dev.	0.002233	0.001597	0.002099	0.002375	0.001982	0.03005
Upper Lim.	0.005	0.01	0.008507	0.007624	0.0051	0.0752
Lower Lim.	0.0016	0.0018	0.006465	0.005004	0.0031	0.04205

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-4	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0032 (J)
8/31/2016					0.0182	
9/1/2016			0.0217	0.0084 (J)		
9/2/2016	<0.005					
12/6/2016					0.012	<0.005
12/8/2016	<0.005		0.017	0.0084 (J)		
3/28/2017		<0.005			0.168	
3/29/2017	<0.005					0.0048 (J)
3/30/2017				0.0079 (J)		
3/31/2017			0.0133			
5/12/2017		<0.005				
6/15/2017		<0.005				
7/11/2017		<0.005			0.0607	0.0031 (J)
7/13/2017	<0.005		0.0068 (J)	0.0062 (J)		
10/24/2017		<0.005				0.0069 (J)
10/25/2017	<0.005				0.034	
10/26/2017			0.0097 (J)	0.0058 (J)		
2/27/2018		<0.005			0.0348	<0.005
2/28/2018	<0.005					
3/1/2018			0.0124			
3/2/2018				<0.005		
7/12/2018	0.0017 (J)		0.015	0.013		
11/6/2018		<0.005			<0.01 (J)	<0.01 (J)
11/7/2018	<0.005		<0.01 (J)	<0.01 (J)		
8/27/2019		<0.005			0.0031 (J)	
8/28/2019						<0.005
8/29/2019	<0.005		0.004 (J)	0.0023 (J)		
10/15/2019		0.0014 (J)				
10/16/2019					0.015	0.0016 (J)
10/17/2019			0.0062 (J)			
10/18/2019	<0.005			0.005 (J)		
3/2/2020		<0.005			0.032	
3/3/2020	<0.005					0.0018 (J)
3/4/2020			0.0065 (J)	0.0061 (J)		
8/12/2020		<0.005	0.002 (J)		0.011	<0.005
8/13/2020				0.0029 (J)		
8/14/2020	<0.005					
9/22/2020		<0.005			0.04	
9/23/2020			<0.01	0.0016 (J)		0.0028 (J)
9/24/2020	<0.005					
3/1/2021		<0.005				
3/2/2021					0.0081	<0.005
3/3/2021	<0.005		0.0039 (J)	0.0025 (J)		
9/10/2021	<0.005	<0.005	0.0035 (J)	0.0022 (J)	0.0099	
9/13/2021						<0.005
1/20/2022	<0.005					
1/21/2022			0.0016 (J)			
1/24/2022		<0.005		<0.005	0.0048 (J)	
1/25/2022						<0.005
9/13/2022			0.0031 (J)	0.0019 (J)		
9/14/2022					0.019	
9/15/2022						<0.005

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-4	DGWC-47	DGWC-48	DGWC-5	DGWC-8
9/16/2022	<0.005					
9/19/2022		<0.005				
2/3/2023		<0.005	0.0015 (J)	<0.005		
2/6/2023	<0.005					
2/7/2023					0.0082	<0.005
9/11/2023	<0.005					
9/12/2023			0.0022 (J)			<0.005
9/13/2023		<0.005		<0.005	0.002 (J)	
1/31/2024	<0.005					
2/1/2024		<0.005			0.0017 (J)	<0.005
2/5/2024			0.0032 (J)	0.0017 (J)		
9/5/2024			0.0011 (J)			
9/6/2024		<0.005			0.0059	
9/9/2024	<0.005					0.0012 (J)
9/10/2024				0.0018 (J)		
Mean	0.004843	0.00482	0.00689	0.005129	0.02467	0.00452
Std. Dev.	0.0007201	0.000805	0.005778	0.003095	0.03716	0.001946
Upper Lim.	0.005	0.005	0.008962	0.005661	0.02964	0.0069
Lower Lim.	0.0017	0.0014	0.003433	0.002401	0.00704	0.0031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
8/30/2016	0.0833
12/6/2016	0.0065 (J)
3/28/2017	0.0954
7/11/2017	0.0561
10/24/2017	0.0653
2/27/2018	0.13
7/11/2018	0.045
11/6/2018	0.12
8/27/2019	0.067
10/17/2019	0.19
3/3/2020	0.046
8/11/2020	0.11
9/22/2020	0.23
3/2/2021	0.07
9/10/2021	0.057
1/26/2022	0.025
9/19/2022	0.048
2/3/2023	0.031
9/11/2024	0.04
Mean	0.07977
Std. Dev.	0.0564
Upper Lim.	0.1041
Lower Lim.	0.04439

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-56	B-66	B-82	B-83	B-88
1/30/2019			<0.001			
9/12/2019			<0.001			
9/23/2019				9.9E-05 (J)		
10/21/2019			<0.001	0.00011 (J)	7.2E-05 (J)	
8/14/2020					<0.001	
8/17/2020		0.00016 (J)		<0.001		<0.001
9/25/2020					<0.001	<0.001
9/28/2020		0.00023 (J)		<0.001		
12/9/2020	<0.001					
1/12/2021	<0.001					
3/3/2021		0.00026 (J)				
3/4/2021	<0.001				<0.001	
3/5/2021						0.0002 (J)
9/13/2021		0.00024 (J)				<0.001
9/14/2021	<0.001		<0.001	<0.001		
9/16/2021					<0.001	
1/21/2022					<0.001	
1/24/2022	<0.001					
1/25/2022			<0.001	<0.001		
1/27/2022		0.00032 (J)				<0.001
9/13/2022	<0.001				<0.001	
9/16/2022		0.00024 (J)	<0.001	<0.001		<0.001
2/3/2023	<0.001				<0.001	
2/7/2023		0.00028 (J)	<0.001	<0.001		<0.001
9/8/2023		0.00021 (J)				
9/11/2023			0.00021 (J)	<0.001		
9/12/2023					<0.001	<0.001
9/13/2023	0.00028 (J)					
2/1/2024			<0.001	<0.001	<0.001	
2/5/2024	<0.001	<0.001				<0.001
9/6/2024					<0.001	
9/9/2024			<0.001	<0.001		
9/10/2024	<0.001					<0.001
9/11/2024		<0.001				
Mean	0.000928	0.000394	0.000921	0.0008372	0.0009156	0.00092
Std. Dev.	0.0002277	0.0003221	0.0002498	0.0003623	0.0002798	0.000253
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.00021	0.001	0.00011	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	DGWC-10	DGWC-12	DGWC-14	DGWC-17	DGWC-19
8/31/2016		0.0004 (J)		<0.001		
9/1/2016			<0.001			0.0005 (J)
9/7/2016					<0.001	
12/6/2016		0.0004 (J)		<0.001		
12/7/2016			<0.001			0.0005 (J)
12/8/2016					<0.001	
3/29/2017		0.0006 (J)	8E-05 (J)	<0.001		0.0004 (J)
3/30/2017					0.0002 (J)	
7/12/2017		0.0005 (J)	9E-05 (J)	<0.001	0.0002 (J)	0.0005 (J)
10/24/2017		0.0004 (J)				
10/25/2017			9E-05 (J)	<0.001	0.0002 (J)	0.0004 (J)
2/27/2018		<0.005	<0.001	<0.001		
2/28/2018					0.00015 (J)	0.00049 (J)
7/11/2018			<0.001	<0.001	0.00017 (J)	0.0005 (J)
11/6/2018		<0.001 (J)				
11/7/2018			<0.001	<0.001	<0.001	<0.001 (J)
8/27/2019		0.00036 (J)	8.9E-05 (J)	<0.001	0.00018 (J)	
8/28/2019						0.00053 (J)
9/17/2019			9.7E-05 (J)			
10/15/2019		0.00039 (J)	9.1E-05 (J)			
10/16/2019				<0.001		0.00053 (J)
10/18/2019					0.00014 (J)	
3/2/2020			0.00013 (J)			
3/3/2020		0.00042 (J)		<0.001		0.0006 (J)
3/4/2020					0.00019 (J)	
8/11/2020		0.00037 (J)	<0.001	<0.001		0.00059 (J)
8/14/2020					0.00019 (J)	
9/22/2020			<0.001	<0.001		0.0005 (J)
9/24/2020		0.00034 (J)			0.00018 (J)	
3/2/2021				<0.001		0.00056 (J)
3/3/2021			<0.001		0.00017 (J)	
3/4/2021		0.00042 (J)				
9/9/2021			<0.001	<0.001		0.00056 (J)
9/10/2021		0.00027 (J)				
9/13/2021					<0.001	
9/15/2021	<0.001					
1/24/2022					<0.001	
1/25/2022			<0.001	<0.001		0.00057 (J)
1/26/2022	<0.001	0.00033 (J)				
9/12/2022	0.0002 (J)					
9/13/2022				<0.001		
9/14/2022					<0.001	0.00056 (J)
9/15/2022		<0.005	<0.001			
1/31/2023	0.00021 (J)					
2/1/2023				<0.001		
2/2/2023		<0.005				
2/6/2023			<0.001		<0.001	0.00059 (J)
9/6/2023	<0.001					
9/8/2023				0.00056 (J)		0.0005 (J)
9/11/2023		<0.005	0.00021 (J)			
9/13/2023					<0.001	
1/30/2024	<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	DGWC-10	DGWC-12	DGWC-14	DGWC-17	DGWC-19
2/1/2024						0.00057 (J)
2/2/2024		<0.005	<0.001			
2/5/2024				<0.001		
2/6/2024					<0.001	
9/4/2024	<0.001					
9/5/2024			<0.001			0.00057 (J)
9/10/2024				<0.001	<0.001	
9/11/2024		<0.005				
Mean	0.0007729	0.00181	0.0006762	0.000979	0.00057	0.0005248
Std. Dev.	0.0003879	0.002148	0.0004391	9.602E-05	0.0004204	5.51E-05
Upper Lim.	0.001	0.005	0.001	0.001	0.001	0.0005552
Lower Lim.	0.0002	0.00037	9.7E-05	0.00056	0.00018	0.0004944

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47	DGWC-48
9/1/2016					0.0002 (J)	<0.001
9/2/2016	<0.01	<0.001				
9/7/2016				<0.001		
12/7/2016	0.0006 (J)					
12/8/2016		<0.001		<0.001	<0.001	<0.001
3/28/2017			<0.001			
3/29/2017	0.0006 (J)	6E-05 (J)				
3/30/2017						9E-05 (J)
3/31/2017				9E-05 (J)	0.0002 (J)	
5/12/2017			<0.001			
6/15/2017			<0.001			
7/11/2017			<0.001			
7/12/2017	0.0006 (J)					
7/13/2017		7E-05 (J)		9E-05 (J)	0.0002 (J)	8E-05 (J)
10/24/2017			<0.001			
10/25/2017	0.0005 (J)	7E-05 (J)		9E-05 (J)		
10/26/2017					0.0003 (J)	9E-05 (J)
2/27/2018			<0.001			
2/28/2018	<0.01	<0.001		<0.001		
3/1/2018					0.00032 (J)	
3/2/2018						<0.001
7/11/2018	<0.01			<0.001		
7/12/2018		<0.001			0.00031 (J)	<0.001
11/6/2018			<0.001			
11/7/2018	<0.001 (J)	<0.001		<0.001	<0.001 (J)	<0.001
8/27/2019			<0.001			
8/28/2019				6.9E-05 (J)		
8/29/2019	0.00084 (J)	6.4E-05 (J)			0.00025 (J)	7.8E-05 (J)
10/15/2019			7.3E-05 (J)			
10/17/2019	0.00062 (J)			<0.001	0.00025 (J)	
10/18/2019		<0.001				<0.001
3/2/2020			<0.001			
3/3/2020		7E-05 (J)				
3/4/2020	0.0023 (J)			<0.001	0.00021 (J)	6.8E-05 (J)
8/12/2020			<0.001		0.00018 (J)	
8/13/2020	0.0016 (J)			<0.001		<0.001
8/14/2020		<0.001				
9/22/2020	0.00055 (J)		<0.001	<0.001		
9/23/2020					0.00026 (J)	<0.001
9/24/2020		<0.001				
3/1/2021			<0.001			
3/2/2021	0.0014 (J)					
3/3/2021		<0.001		<0.001	0.00023 (J)	<0.001
9/10/2021	0.00052 (J)	<0.001	<0.001		0.00036 (J)	<0.001
9/13/2021				<0.001		
1/20/2022		<0.001		<0.001		
1/21/2022	<0.01				0.00028 (J)	
1/24/2022			<0.001			<0.001
9/13/2022				<0.001	0.00021 (J)	<0.001
9/15/2022	0.001 (J)					
9/16/2022		<0.001				
9/19/2022			<0.001			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47	DGWC-48
2/1/2023				0.00028 (J)		
2/3/2023			<0.001		0.00022 (J)	<0.001
2/6/2023		<0.001				
2/7/2023	0.0018 (J)					
9/11/2023	<0.01	<0.001				
9/12/2023					0.00019 (J)	
9/13/2023			<0.001	<0.001		<0.001
1/30/2024				<0.001		
1/31/2024		<0.001				
2/1/2024	<0.01		<0.001			
2/5/2024					<0.001	<0.001
9/5/2024	<0.01			<0.001	0.00047 (J)	
9/6/2024			<0.001			
9/9/2024		<0.001				
9/10/2024						<0.001
Mean	0.003997	0.0007778	0.0009537	0.0007914	0.0002924	0.0007812
Std. Dev.	0.004374	0.0004073	0.0002073	0.0003844	0.0001102	0.000401
Upper Lim.	0.01	0.001	0.001	0.001	0.0003328	0.001
Lower Lim.	0.0006	7E-05	7.3E-05	0.00028	0.0002281	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/10/2024 3:57 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-5	DGWC-8	DGWC-9
8/30/2016		<0.001	<0.005
8/31/2016	<0.001		
12/6/2016	<0.001	<0.001	0.0006 (J)
3/28/2017	0.0002 (J)		0.0007 (J)
3/29/2017		0.0002 (J)	
7/11/2017	<0.001	0.0001 (J)	0.0007 (J)
10/24/2017		0.0003 (J)	0.0006 (J)
10/25/2017	<0.001		
2/27/2018	<0.001	0.00033 (J)	0.00038 (J)
7/11/2018			<0.005
11/6/2018	<0.001	<0.001 (J)	<0.005
8/27/2019	<0.001		0.00053 (J)
8/28/2019		0.00022 (J)	
10/16/2019	7.8E-05 (J)	0.00025 (J)	
10/17/2019			0.00076 (J)
3/2/2020	6.2E-05 (J)		
3/3/2020		0.00023 (J)	0.00044 (J)
8/11/2020			<0.005
8/12/2020	<0.001	0.00023 (J)	
9/22/2020	<0.001		0.00043 (J)
9/23/2020		0.0002 (J)	
3/2/2021	<0.001	0.00019 (J)	<0.005
9/10/2021	<0.001		0.0004 (J)
9/13/2021		0.00019 (J)	
1/24/2022	<0.001		
1/25/2022		0.00019 (J)	
1/26/2022			<0.005
9/14/2022	<0.001		
9/15/2022		<0.001	
9/19/2022			<0.005
2/3/2023			<0.005
2/7/2023	<0.001	<0.001	
9/12/2023		<0.001	
9/13/2023	<0.001		
2/1/2024	<0.001	<0.001	
9/6/2024	<0.001		
9/9/2024		<0.001	
9/11/2024			<0.005
Mean	0.000867	0.0005315	0.00266
Std. Dev.	0.0003258	0.000395	0.002283
Upper Lim.	0.001	0.001	0.005
Lower Lim.	0.0002	0.0002	0.00044

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

FIGURE J.

Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/9/2024, 4:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00001631**	**-79**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-47**	**-0.0007469**	**-116**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0004397**	**-147**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-56**	**0.006632**	**36**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-93**	**-0.006787**	**-32**	**-27**	**Yes**	**11**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.00312**	**-136**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**70**	**66**	**Yes**	**21**	**76.19**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01737**	**-115**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-20**	**0.09827**	**117**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03286**	**-143**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03685**	**-187**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01263**	**-148**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01905**	**119**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4397**	**-122**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**B-120D**	**-0.01068**	**-22**	**-17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005094**	**-151**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005879**	**-155**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 12/9/2024, 4:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	0	66	No	21	57.14	n/a	0.05	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-25	-66	No	21	85.71	n/a	0.05	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	29	66	No	21	85.71	n/a	0.05	NP
Arsenic (mg/L)	DGWC-9	-0.0008394	-31	-58	No	19	5.263	n/a	0.05	NP
Beryllium (mg/L)	B-92	-0.001006	-17	-20	No	9	0	n/a	0.05	NP
Beryllium (mg/L)	B-93	-0.0003279	-7	-27	No	11	0	n/a	0.05	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-14	-66	No	21	95.24	n/a	0.05	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00001631**	**-79**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.000008117	-63	-66	No	21	23.81	n/a	0.05	NP
Beryllium (mg/L)	DGWC-10	0.0002667	23	62	No	20	0	n/a	0.05	NP
Beryllium (mg/L)	**DGWC-47**	**-0.0007469**	**-116**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0004397**	**-147**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWC-5	0.0002291	44	62	No	20	0	n/a	0.05	NP
Beryllium (mg/L)	DGWC-9	-0.00002633	-12	-58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	B-104D	-0.003954	-10	-23	No	10	0	n/a	0.05	NP
Cobalt (mg/L)	**B-56**	**0.006632**	**36**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	B-63	-0.002958	-18	-27	No	11	0	n/a	0.05	NP
Cobalt (mg/L)	B-92	-0.001263	-3	-15	No	7	0	n/a	0.05	NP
Cobalt (mg/L)	**B-93**	**-0.006787**	**-32**	**-27**	**Yes**	**11**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.00312**	**-136**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	55	66	No	21	61.9	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**70**	**66**	**Yes**	**21**	**76.19**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01737**	**-115**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWC-19	0.00009084	14	66	No	21	0	n/a	0.05	NP
Cobalt (mg/L)	**DGWC-20**	**0.09827**	**117**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03286**	**-143**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03685**	**-187**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01263**	**-148**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01905**	**119**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	B-104D	-0.5871	-14	-23	No	10	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	B-122D	1.245	4	10	No	5	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4397**	**-122**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	-0.02457	-20	-66	No	21	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.01502	-11	-66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	**B-120D**	**-0.01068**	**-22**	**-17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	DGWA-53 (bg)	-0.0001366	-51	-66	No	21	4.762	n/a	0.05	NP
Lithium (mg/L)	DGWA-70A (bg)	0	31	66	No	21	85.71	n/a	0.05	NP
Lithium (mg/L)	DGWA-71 (bg)	0	-26	-66	No	21	23.81	n/a	0.05	NP
Lithium (mg/L)	**DGWC-47**	**-0.005094**	**-151**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005879**	**-155**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

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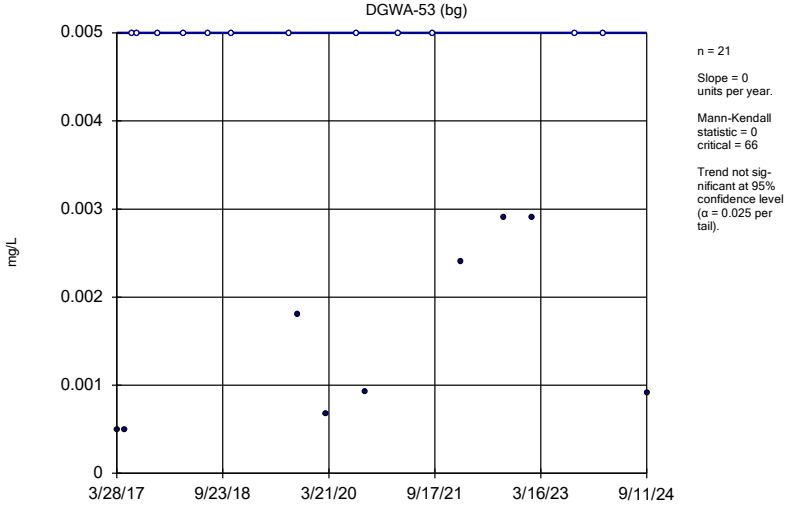
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (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: Arsenic Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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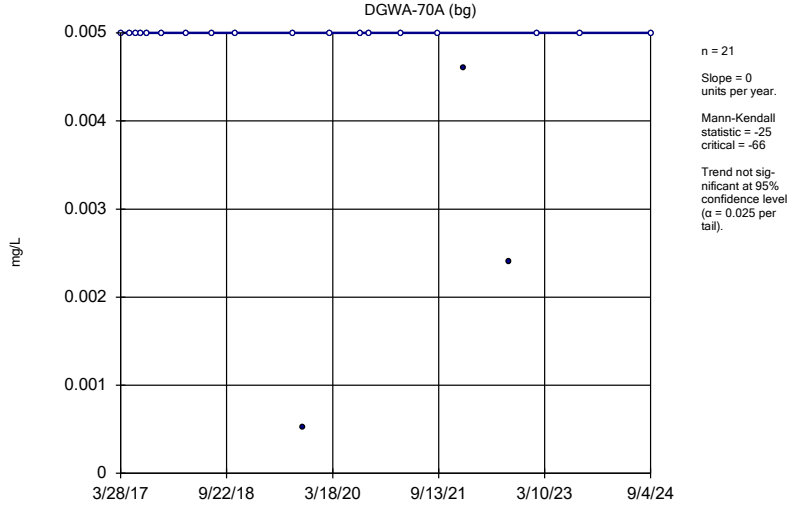
Sen's Slope Estimator

DGWA-70A (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: Arsenic Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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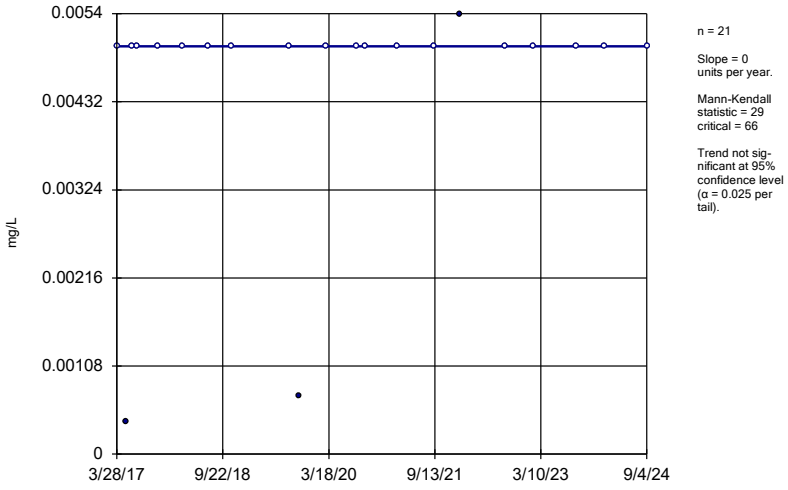
Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 29
critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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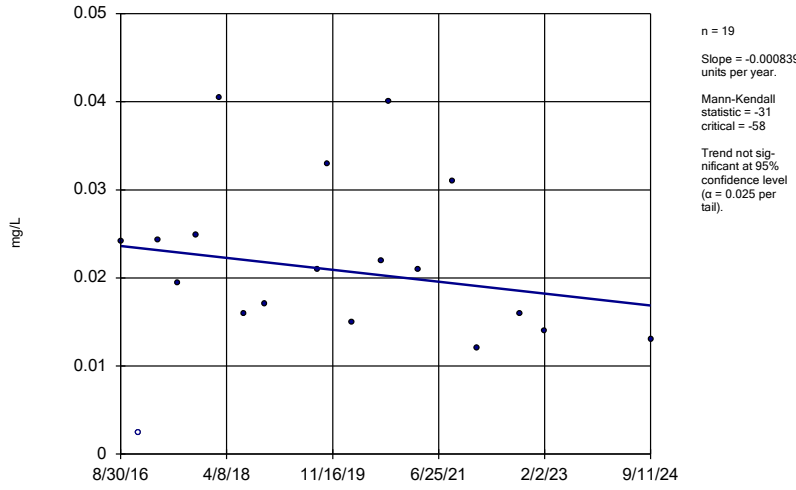
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-9



n = 19

Slope = -0.0008394 units per year.

Mann-Kendall statistic = -31
critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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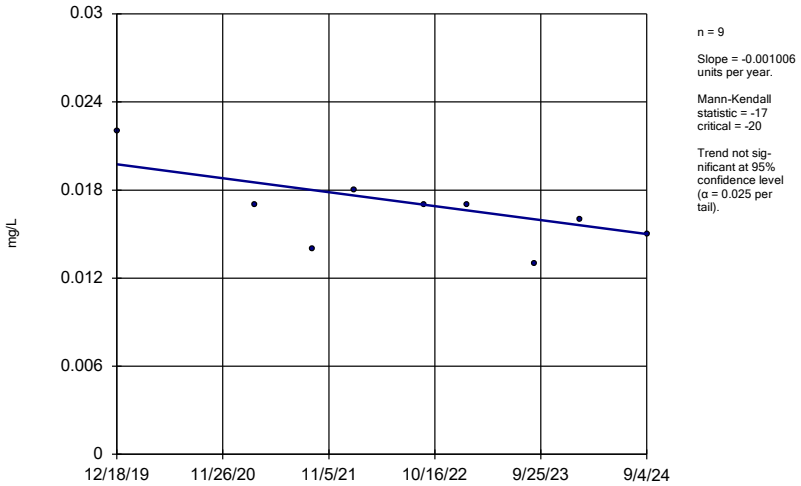
Sen's Slope Estimator

B-92



n = 9

Slope = -0.001006 units per year.

Mann-Kendall statistic = -17
critical = -20

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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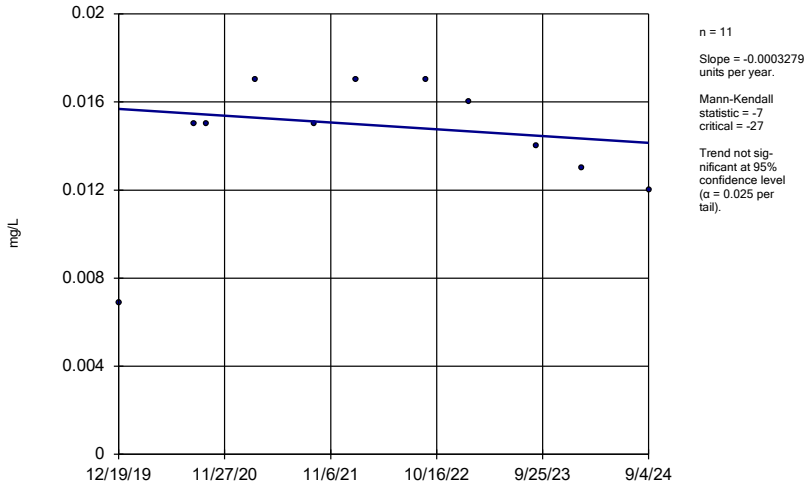
Sen's Slope Estimator

B-93



n = 11

Slope = -0.0003279 units per year.

Mann-Kendall statistic = -7
critical = -27

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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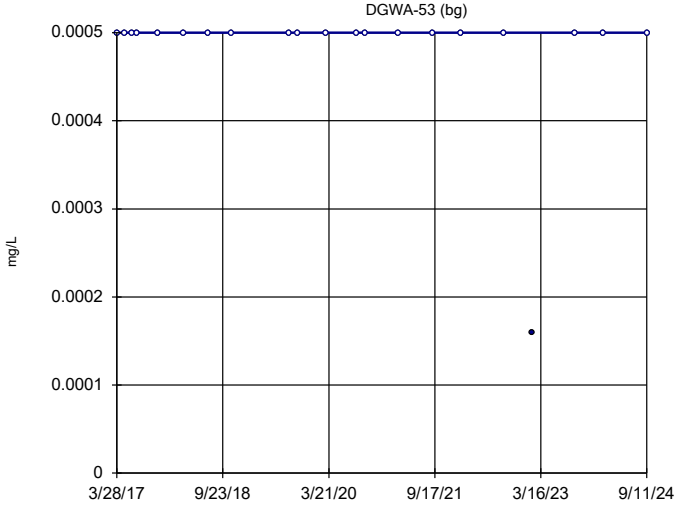
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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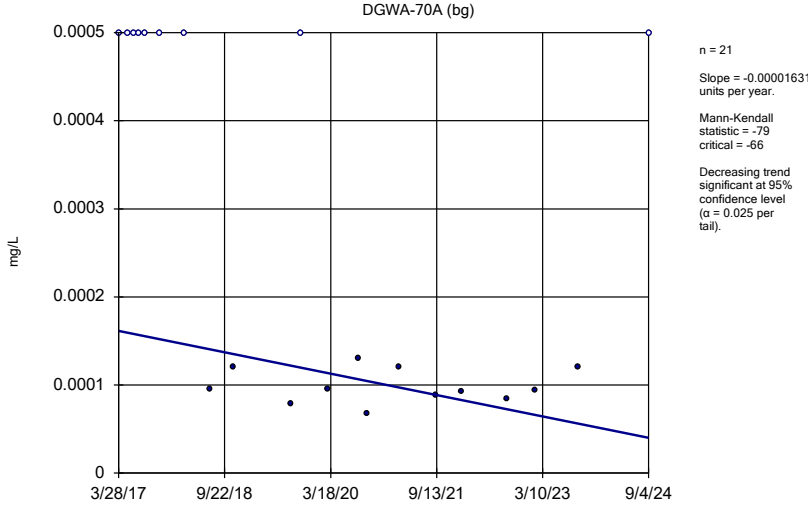
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 21

Slope = -0.00001631 units per year.

Mann-Kendall statistic = -79
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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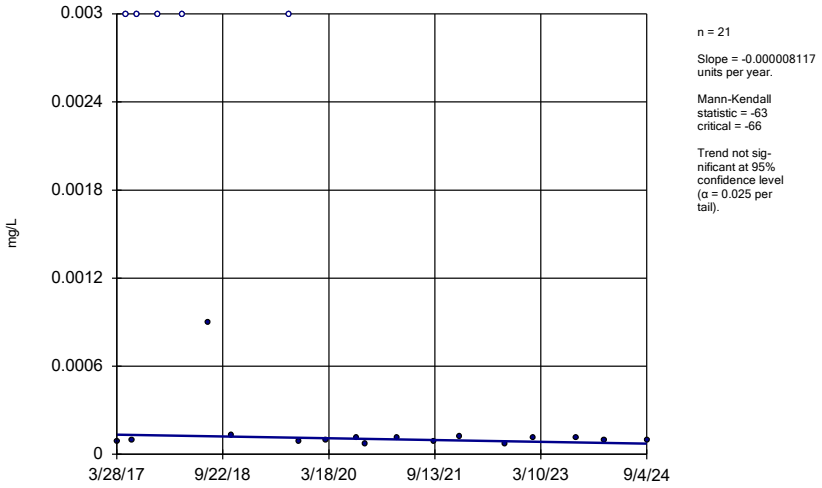
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = -0.000008117 units per year.

Mann-Kendall statistic = -63
critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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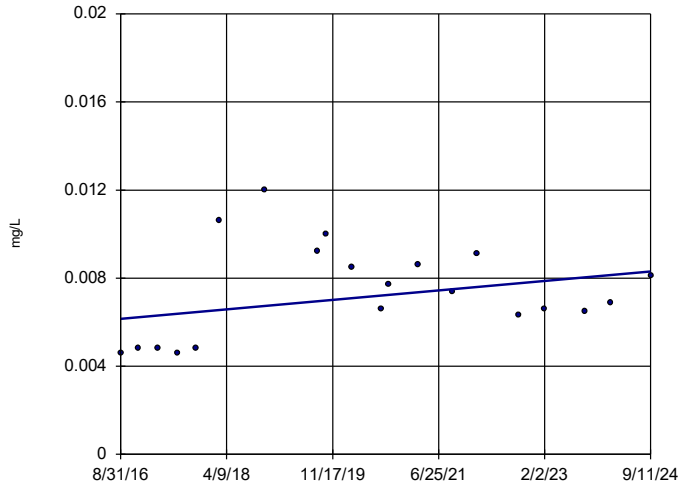
Sen's Slope Estimator

DGWC-10



n = 20

Slope = 0.0002667 units per year.

Mann-Kendall statistic = 23
critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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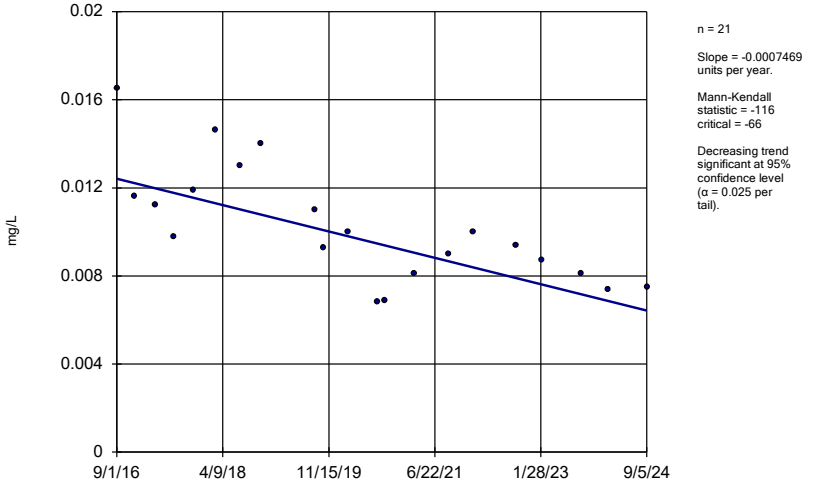
Sen's Slope Estimator

DGWC-47



n = 21

Slope = -0.0007469 units per year.

Mann-Kendall statistic = -116
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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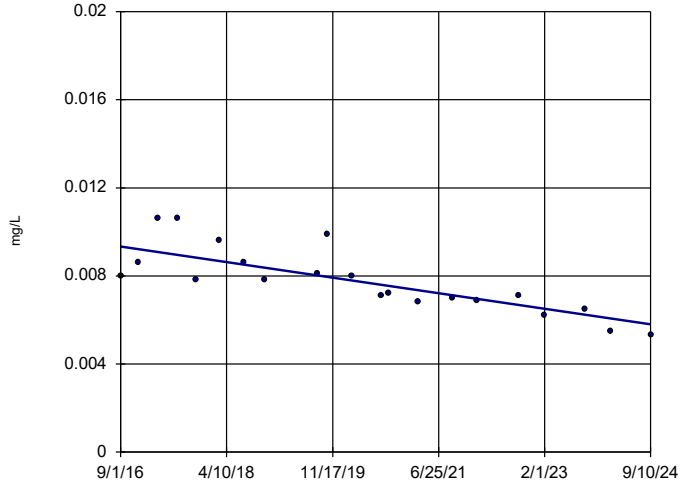
Sen's Slope Estimator

DGWC-48



n = 21

Slope = -0.0004397 units per year.

Mann-Kendall statistic = -147
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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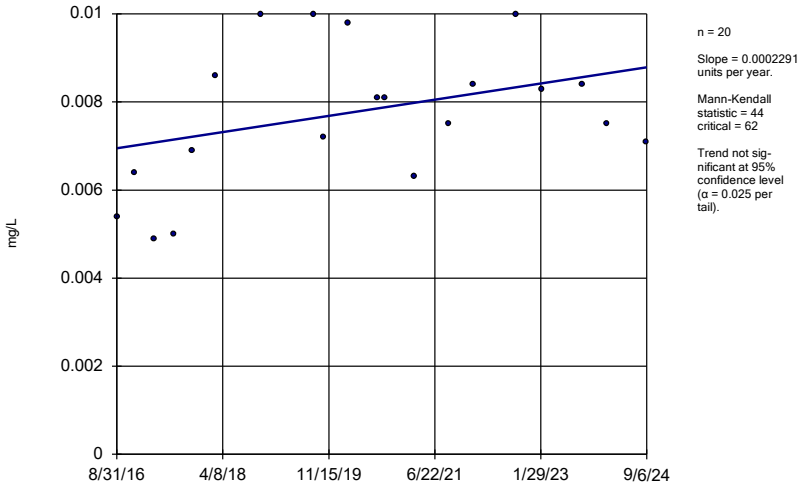
Sen's Slope Estimator

DGWC-5



n = 20

Slope = 0.0002291 units per year.

Mann-Kendall statistic = 44
critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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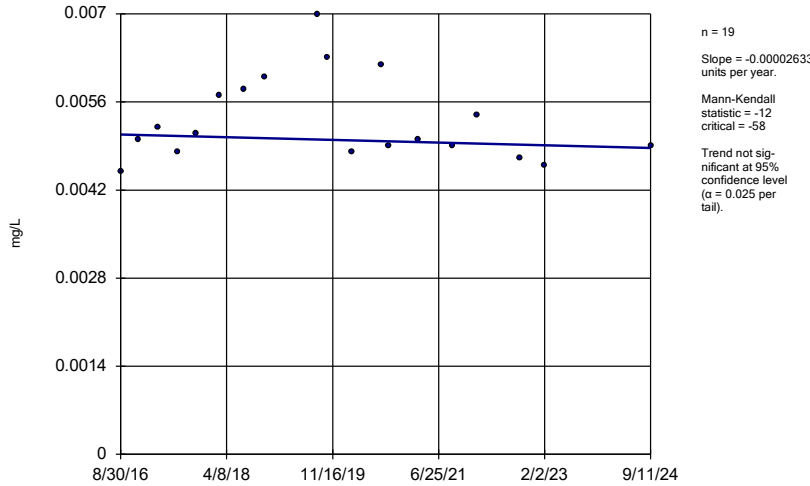
Sen's Slope Estimator

DGWC-9



n = 19

Slope = -0.00002633 units per year.

Mann-Kendall statistic = -12
critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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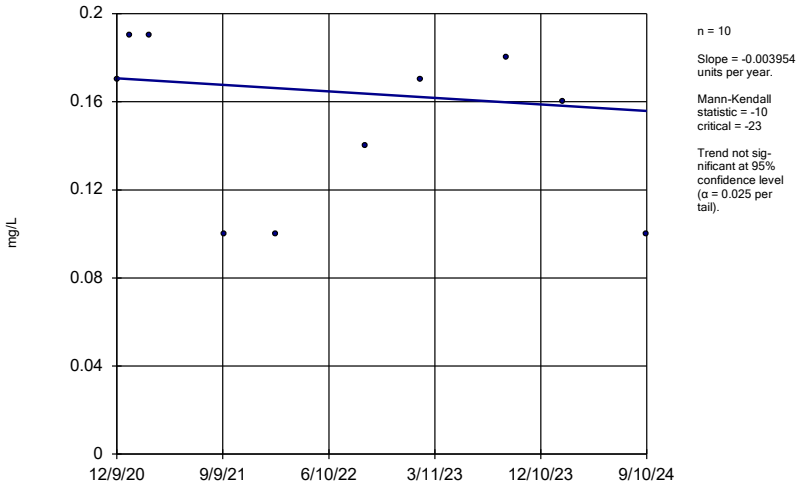
Sen's Slope Estimator

B-104D



n = 10

Slope = -0.003954 units per year.

Mann-Kendall statistic = -10
critical = -23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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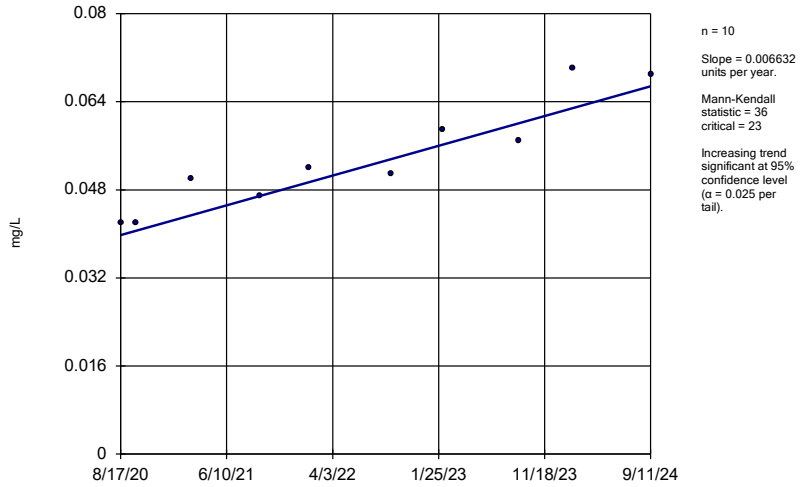
Sen's Slope Estimator

B-56



n = 10

Slope = 0.006632 units per year.

Mann-Kendall statistic = 36
critical = 23

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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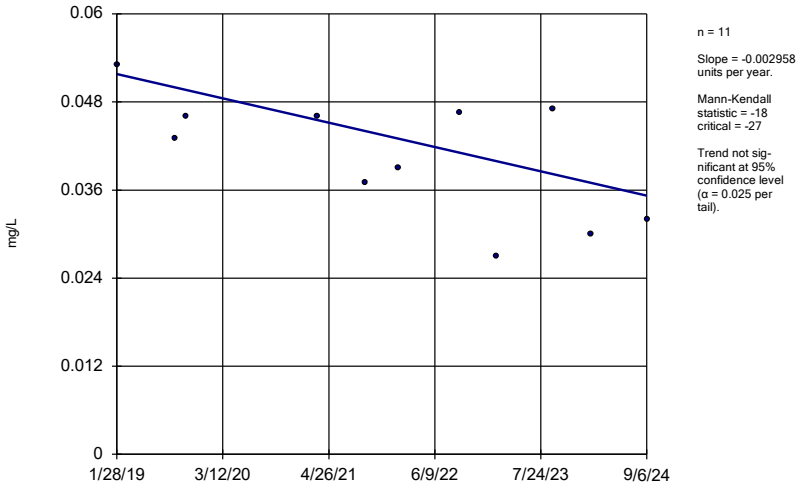
Sen's Slope Estimator

B-63



n = 11

Slope = -0.002958 units per year.

Mann-Kendall statistic = -18
critical = -27

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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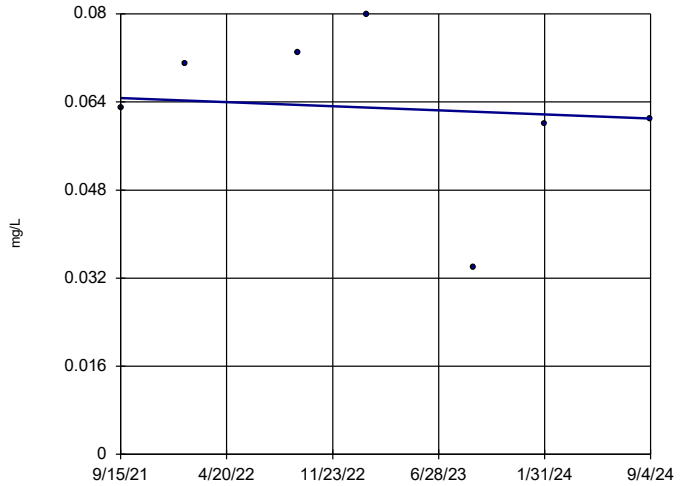
Sen's Slope Estimator

B-92



n = 7

Slope = -0.001263 units per year.

Mann-Kendall statistic = -3
critical = -15

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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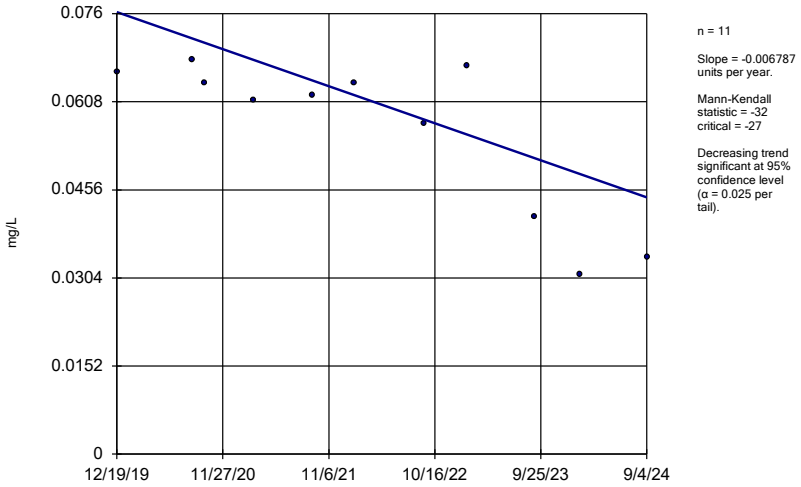
Sen's Slope Estimator

B-93



n = 11

Slope = -0.006787 units per year.

Mann-Kendall statistic = -32
critical = -27

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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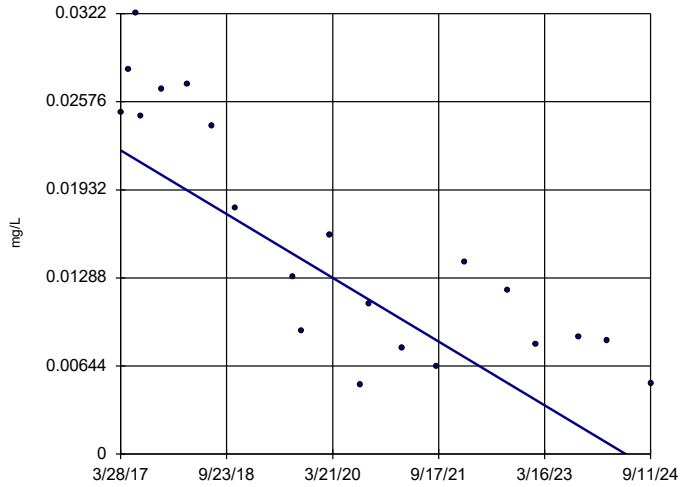
Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = -0.00312 units per year.

Mann-Kendall statistic = -136
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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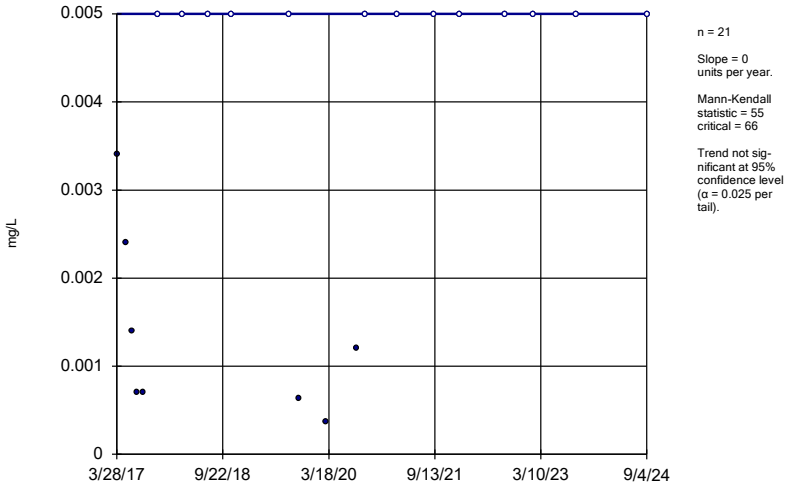
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 55
critical = 66

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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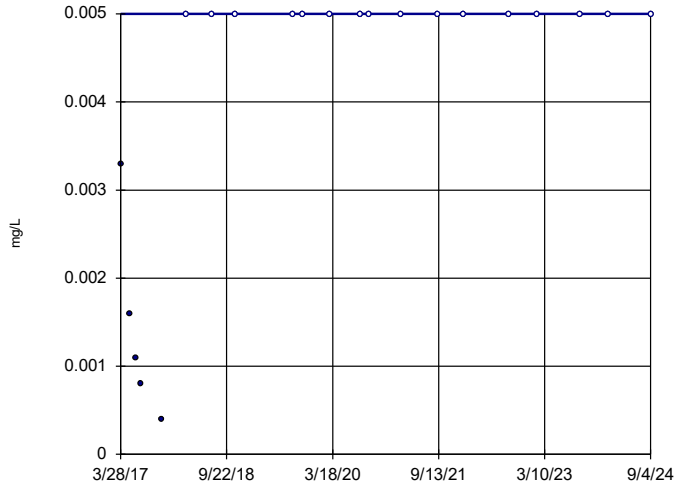
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 70
critical = 66

Increasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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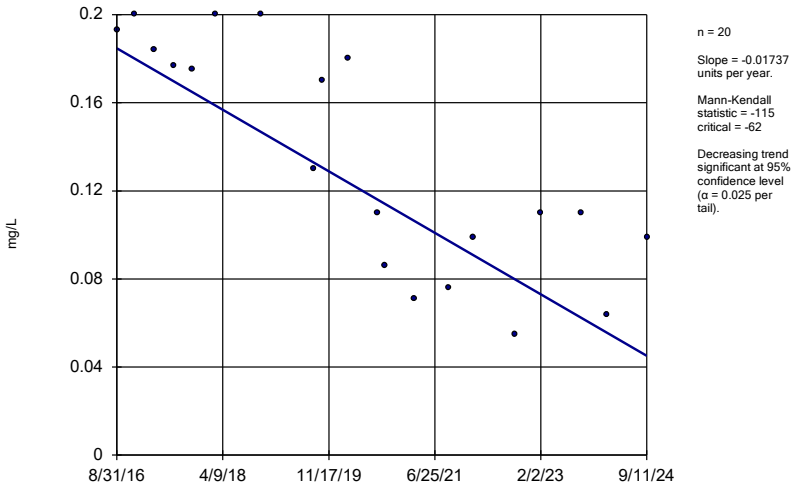
Sen's Slope Estimator

DGWC-10



n = 20

Slope = -0.01737
units per year.

Mann-Kendall
statistic = -115
critical = -62

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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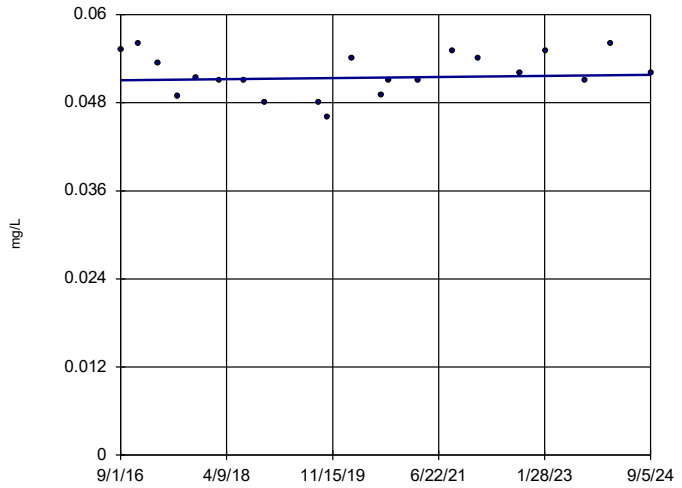
Sen's Slope Estimator

DGWC-19



n = 21

Slope = 0.00009084
units per year.

Mann-Kendall
statistic = 14
critical = 66

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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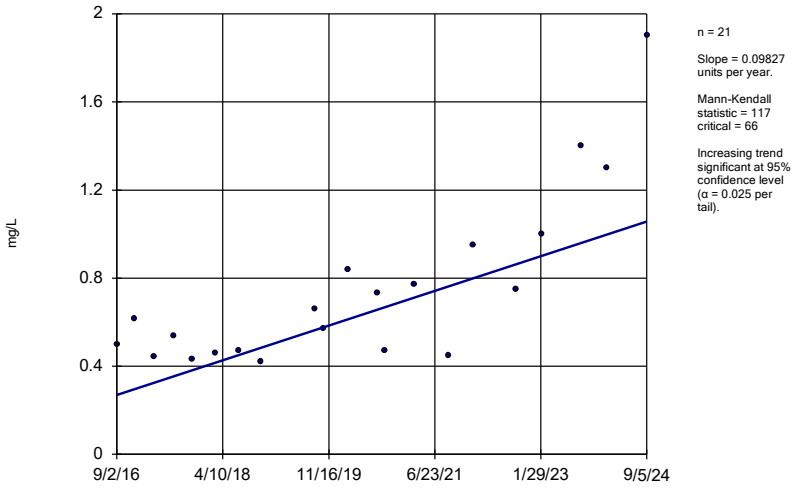
Sen's Slope Estimator

DGWC-20



n = 21

Slope = 0.09827 units per year.

Mann-Kendall statistic = 117
critical = 66

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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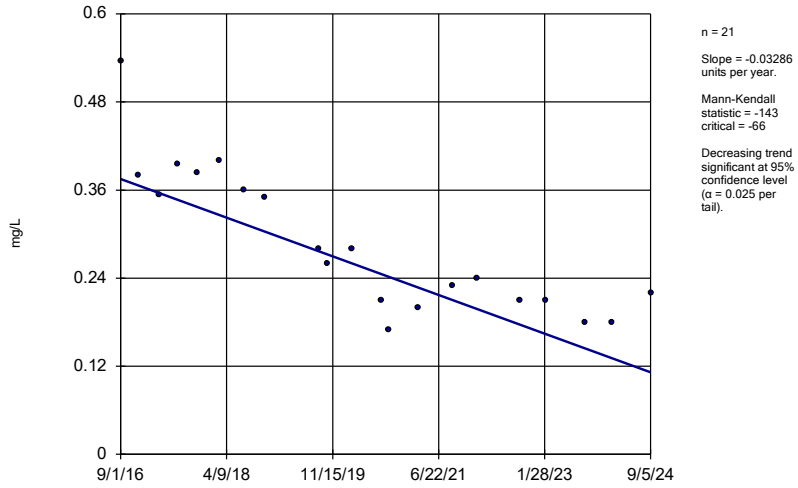
Sen's Slope Estimator

DGWC-47



n = 21

Slope = -0.03286 units per year.

Mann-Kendall statistic = -143
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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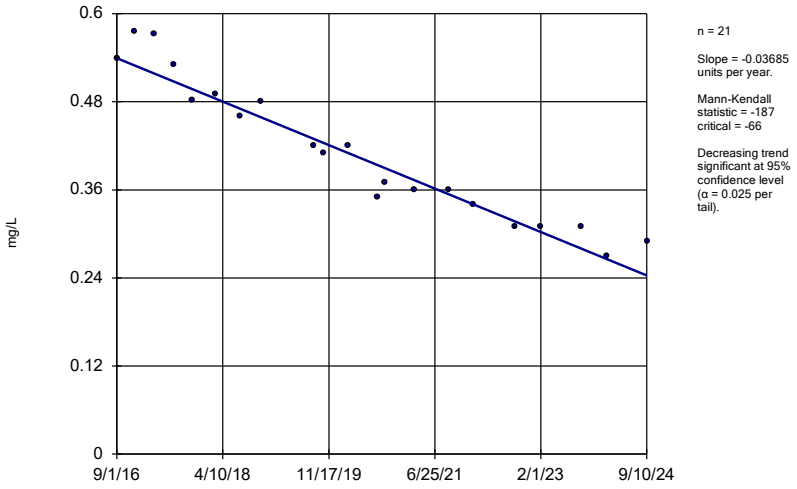
Sen's Slope Estimator

DGWC-48



n = 21

Slope = -0.03685 units per year.

Mann-Kendall statistic = -187
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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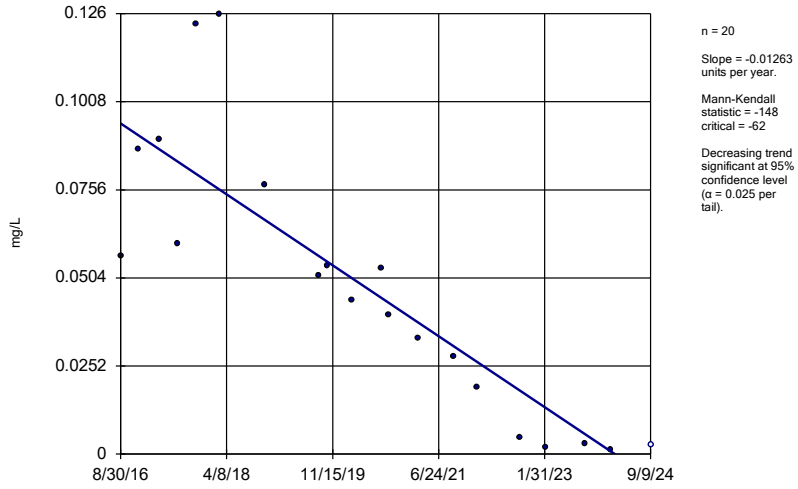
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-8



n = 20

Slope = -0.01263 units per year.

Mann-Kendall statistic = -148
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:23 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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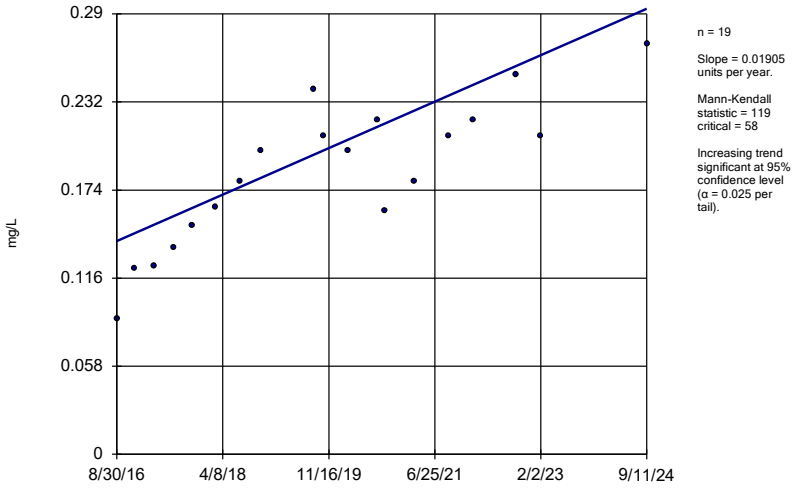
Sen's Slope Estimator

DGWC-9



n = 19

Slope = 0.01905 units per year.

Mann-Kendall statistic = 119
critical = 58

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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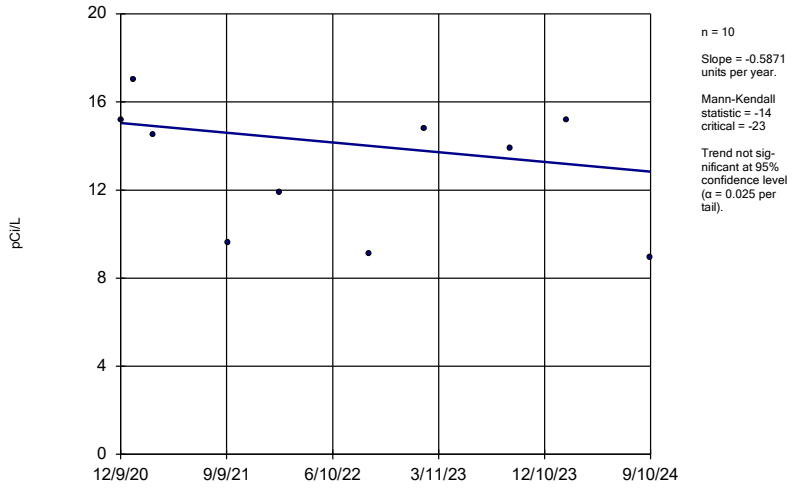
Sen's Slope Estimator

B-104D



n = 10

Slope = -0.5871 units per year.

Mann-Kendall statistic = -14
critical = -23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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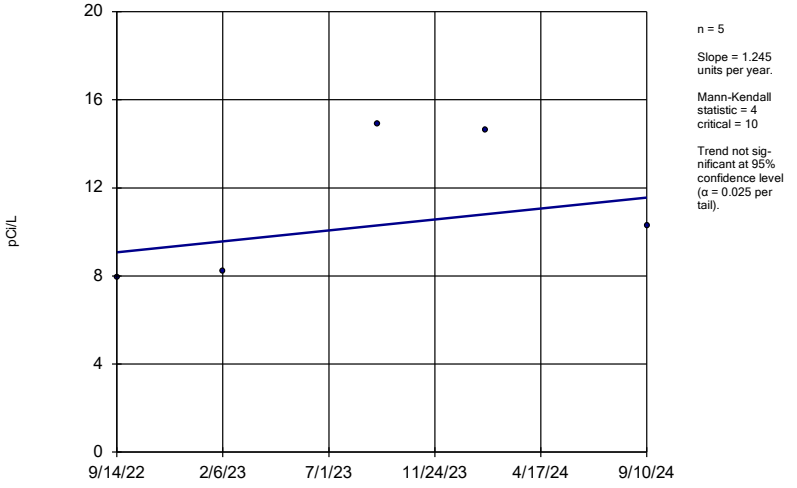
Sen's Slope Estimator

B-122D



n = 5

Slope = 1.245 units per year.

Mann-Kendall statistic = 4
critical = 10

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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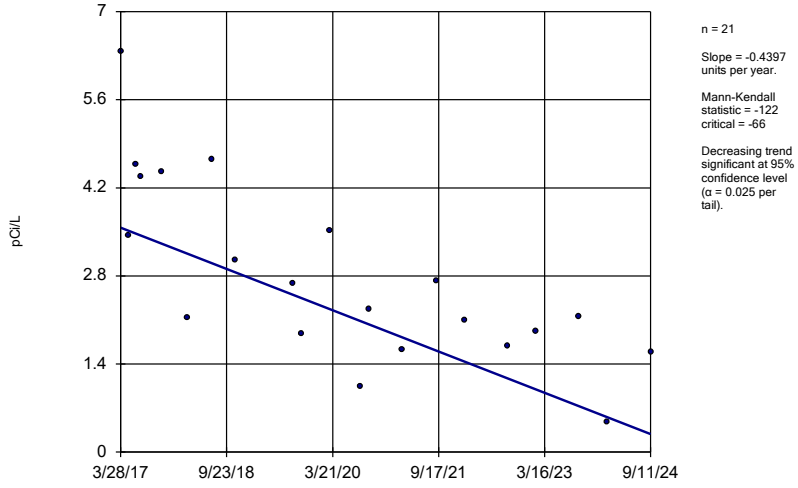
Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = -0.4397 units per year.

Mann-Kendall statistic = -122
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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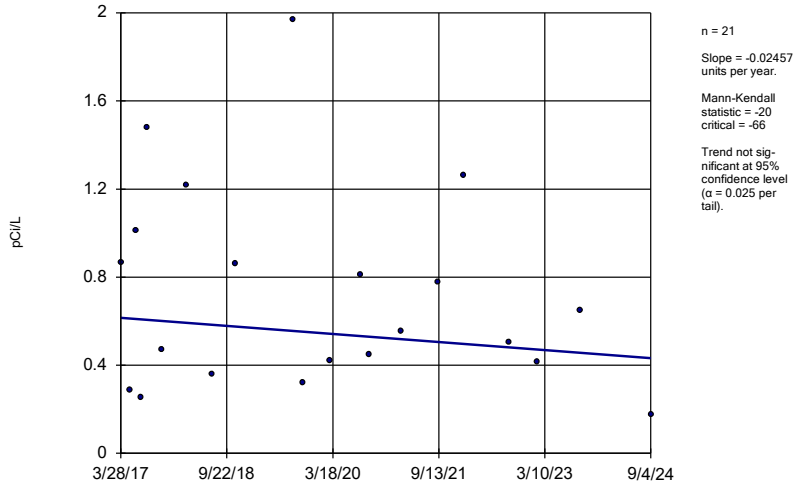
Sen's Slope Estimator

DGWA-70A (bg)



n = 21

Slope = -0.02457 units per year.

Mann-Kendall statistic = -20
critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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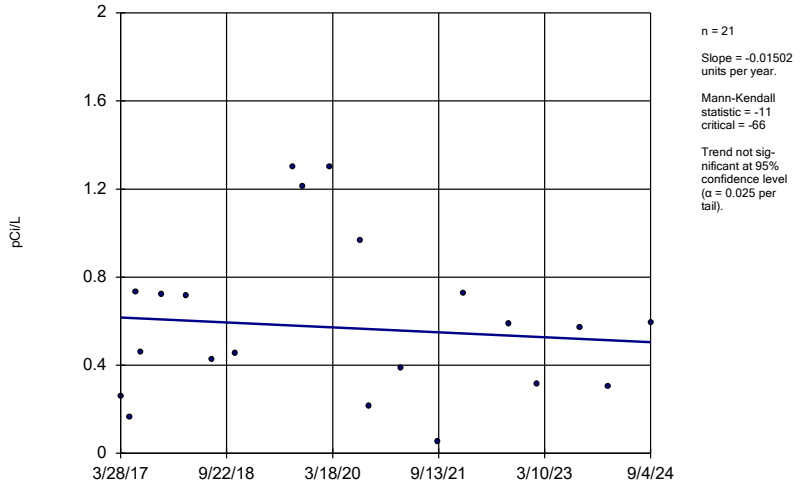
Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = -0.01502 units per year.

Mann-Kendall statistic = -11
critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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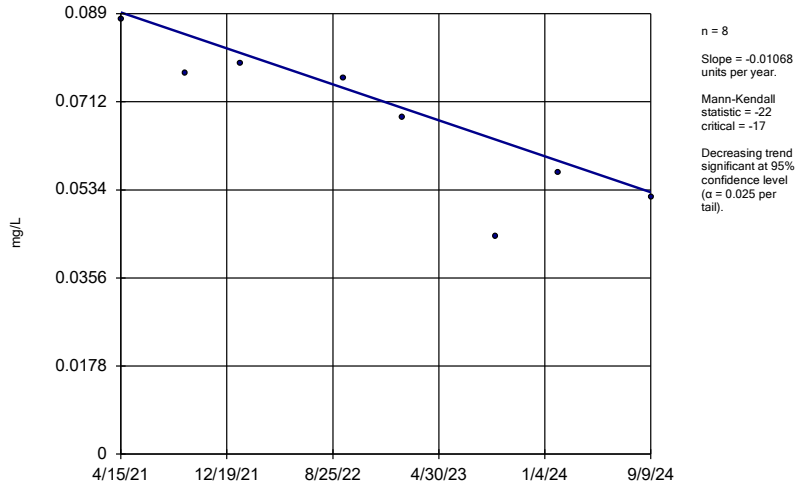
Sen's Slope Estimator

B-120D



n = 8

Slope = -0.01068 units per year.

Mann-Kendall statistic = -22
critical = -17

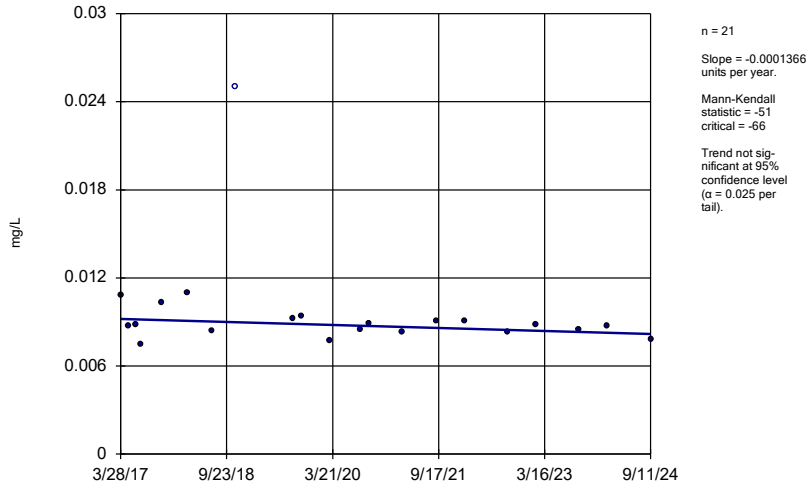
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = -0.0001366 units per year.

Mann-Kendall statistic = -51
critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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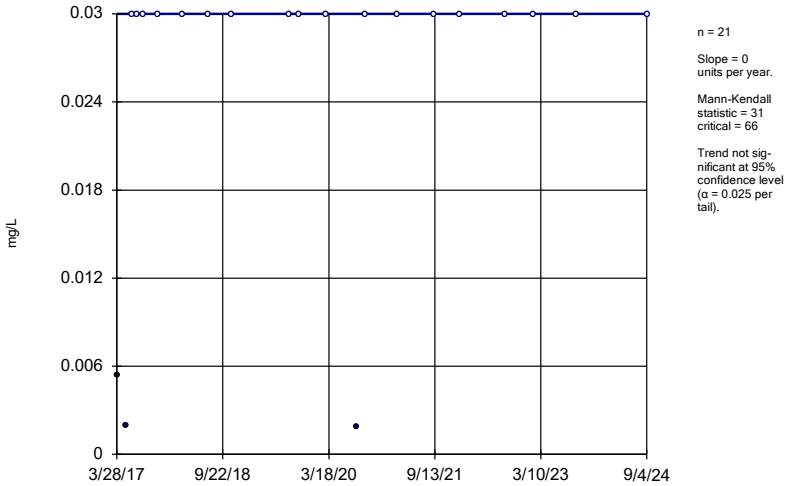
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 31 critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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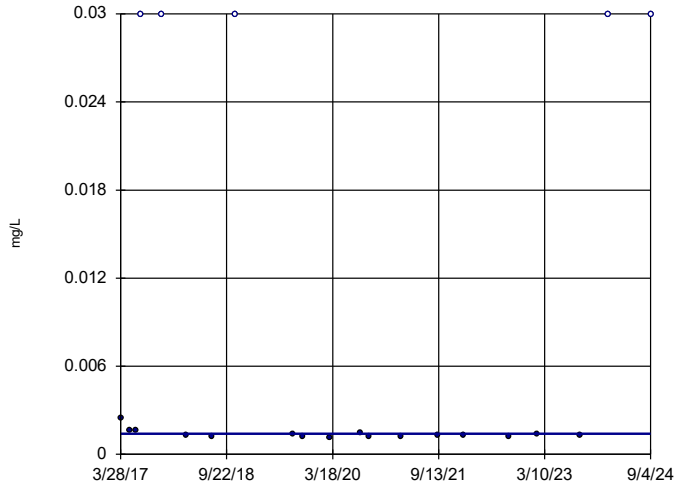
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -26 critical = -66

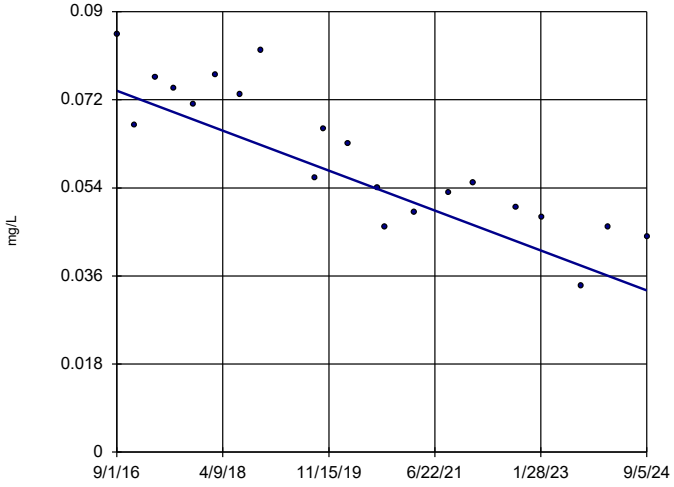
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-47



n = 21

Slope = -0.005094 units per year.

Mann-Kendall statistic = -151 critical = -66

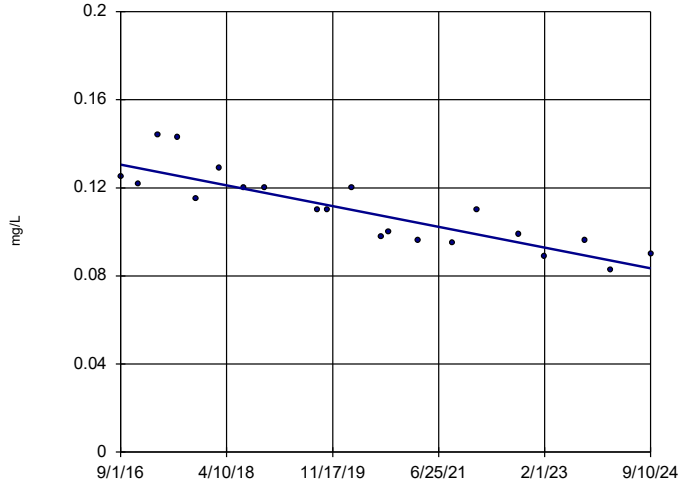
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-48



n = 21

Slope = -0.005879 units per year.

Mann-Kendall statistic = -155 critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/9/2024 4:24 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX F

Plant McDonough Ash Pond Pre-Design Investigation Technical Memorandum

REPORT

PLANT MCDONOUGH ASH POND PRE-DESIGN INVESTIGATION

Plant McDonough-Atkinson CCR Unit AP-2 and 3/4

Submitted to:

Georgia Power Company

241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

Submitted by:

WSP USA Inc.

5170 Peachtree Road, Building 100, Atlanta, Georgia USA 30341

T: +1 770 496-1893

January 10, 2025

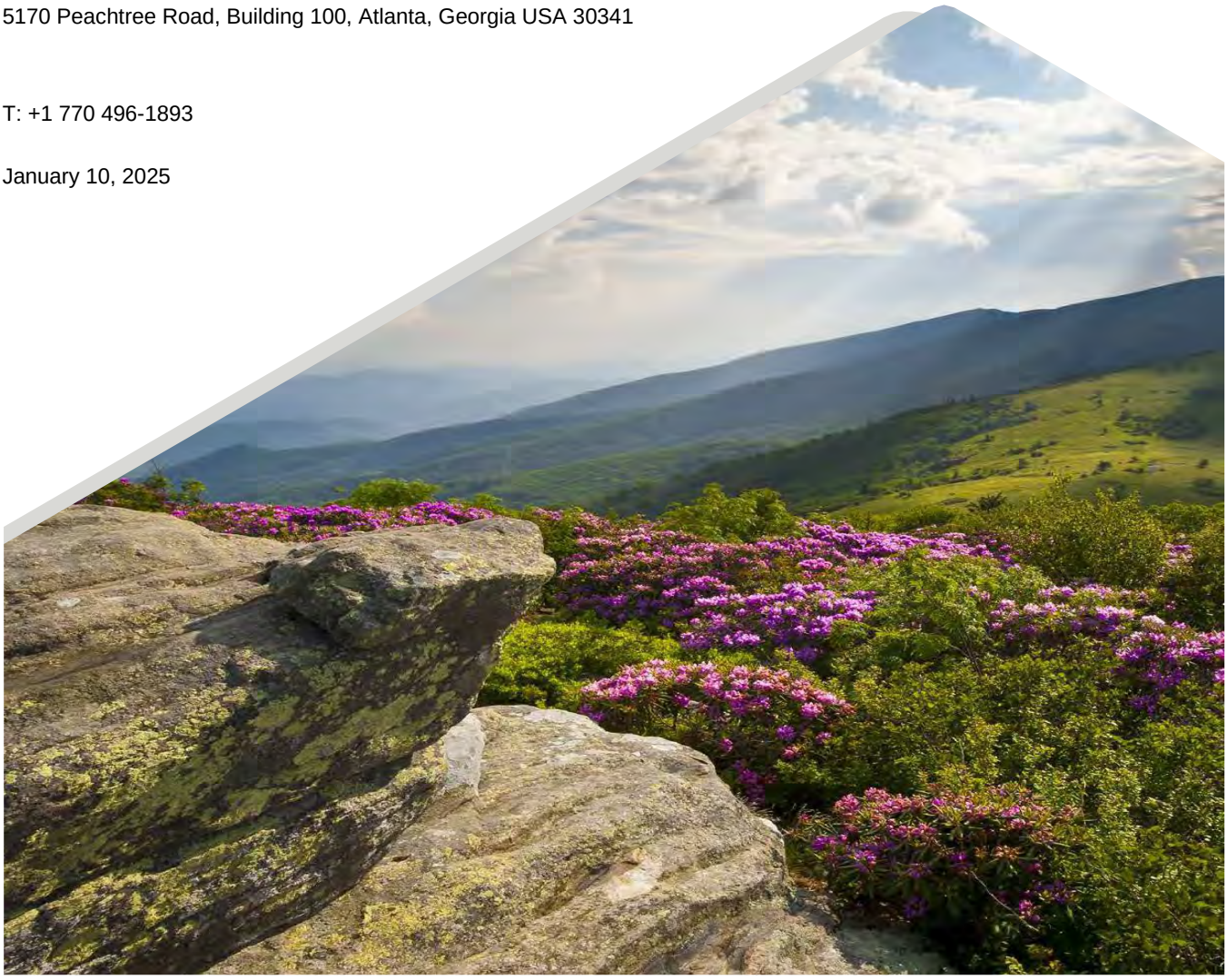


Table of Contents

1.0 BACKGROUND AND PURPOSE....1

2.0 INVESTIGATION ACTIVITIES....1

3.0 INVESTIGATION RESULTS....2

TABLES

Table 1 Pre-Design Investigation Boring Locations
Table 2 Summary of Groundwater Field Parameters
Table 3 Summary of Groundwater Analytical Data

FIGURES

Figure 1 Pre-Design Investigation Boring Locations
Figure 2 Pre-Design Investigation Arsenic Concentration Data
Figure 3 Pre-Design Investigation Beryllium Concentration Data
Figure 4 Pre-Design Investigation Cobalt Concentration Data
Figure 5 Pre-Design Investigation Lithium Concentration Data

APPENDICES

Appendix A Waterloo^{APS} Logs
Appendix B Analytical Laboratory Report

1.0 BACKGROUND AND PURPOSE

On behalf of Georgia Power Company (Georgia Power), WSP USA Inc. (WSP) has prepared this Technical Memorandum (Memo) to document pre-design investigation (PDI) field activities and results from Plant McDonough Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4; Site). In-situ geochemical injections, coupled with monitored natural attenuation (MNA), have been proposed as corrective measures to address concentrations of arsenic, beryllium, cobalt, and lithium reported at statistically significant levels (SSLs) above Groundwater Protection Standards (GWPS).

Design of in-situ geochemical injection corrective measures includes multiple assessment and design components, including a pre-design investigation (PDI) to characterize and refine proposed treatment areas. This Memo provides a summary of the PDI field activities and the results of the investigation. The information collected during the PDI will inform in-situ injection pilot studies and groundwater remedy design activities.

2.0 INVESTIGATION ACTIVITIES

PDI activities were conducted from March 22nd through 27th, 2024. Cascade Technical Services (Cascade) advanced ten (10) direct push technology (DPT) Waterloo Aquifer Profiling System (Waterloo^{APS}) borings at the locations shown on **Figure 1**. Surveyed PDI boring locations are presented in **Table 1**. The Waterloo^{APS} tooling continuously logged vertical hydrostratigraphic profiles of relative hydraulic conductivity (i.e., Index of Hydraulic Conductivity, or I_k) from ground surface to depths ranging between 3.9 and 57.9 feet below ground surface (bgs), corresponding with DPT refusal. WaterlooAPS boring logs are included in **Appendix A**.

Depth-discrete groundwater screening samples were collected using stainless-steel Waterloo^{APS} tooling and a peristaltic pump. Attempts were made to collect groundwater samples from each of the PDI boring locations, but insufficient yield did not allow for collection at all locations. As the Waterloo^{APS} tooling advanced, attempts were made to collect samples at various depths below the water table. Groundwater recovery was generally less successful at shallower depths. All samples successfully collected ranged in elevation between 761.5 feet and 782.5 feet. Groundwater was purged at a low-flow rate ranging from approximately 20 to 150 milliliters per minute (mL/min) until stabilization criteria were met, or up to a maximum of 60 minutes prior to sample collection. The following stabilization criteria were applied:

- pH ± 0.1 standard units (SU)
- Conductivity ± 5%
- Dissolved oxygen (DO) ± 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 10 nephelometric turbidity units (NTU)

All groundwater samples were field filtered using a 0.45-micron filter. During purging, groundwater quality field parameters (i.e., pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation reduction potential (ORP)) were monitored using an AquaTroll 400 logger and Hach turbidity meter and were manually recorded on field sample logs. Sulfide and ferrous iron field kits were used during sample collection to assess geochemical conditions in real time. Results from the field tests and stabilized field parameters are provided in **Table 2**.

Samples were collected in appropriately preserved laboratory-supplied sample containers and kept on ice while in the field and then shipped to Pace Analytical Services, LLC (Pace Analytical) in Atlanta, Georgia following chain-of-custody protocols. WSP personnel managed the collection, documentation, and shipment of the groundwater

samples. Samples were analyzed for arsenic, beryllium, cobalt, and lithium, as well as Appendix III constituents, major cations and anions (sodium, magnesium, potassium, chloride, and alkalinity [total/carbonate/bicarbonate]), iron, manganese, sulfide, phosphate, and total organic carbon by Pace Analytical. Analytical results are presented in **Table 3** and the laboratory analytical reports are included in **Appendix B**.

Completed soil borings were abandoned to the ground surface with bentonite, and subsequently surveyed by Metro Engineering and Surveying Co., Inc. The surveyed coordinates for each of the locations is provided in **Table 1**.

3.0 INVESTIGATION RESULTS

The Waterloo^{APS} vertical profiles of I_K (**Appendix A**) for AP-2 and 3/4 PDI locations indicate relatively low I_k at PDI locations AP234-HRSC24-01, AP234-HRSC24-03, AP234-HRSC24-04, and AP234-HRSC24-10. Higher I_K zones were observed at PDI locations AP234-HRSC24-02, AP234-HRSC24-08, AP234-HRSC24-09, and AP234-HRSC24-11. Shallow refusal was encountered at AP234-HRSC24-12 and AP234-HRSC24-13 due to near surface debris.

Analytical results from borings advanced in the AP-2 and 3/4 vicinity are shown on **Figure 2** through **Figure 5**. Arsenic was not detected above GWPS at any of the PDI locations sampled as presented in **Figure 2**. Beryllium concentrations in PDI groundwater samples AP234-HRSC24-08, AP234-HRSC24-09, and AP234-HRSC24-10 exceeded the GWPS of 0.004 mg/L (**Figure 3**). The highest Be concentration detected (0.022 mg/L) was from PDI location AP234-HRSC24-09 at a depth of 28.5 feet bgs (779.8 feet NAVD88). Cobalt concentrations in all collected PDI groundwater samples exceeded the GWPS of 0.024 mg/L as presented on **Figure 4**. The highest Co concentration in PDI groundwater samples (i.e., 0.28 mg/L) was collected at PDI location AP234-HRSC24-08 18.5 feet bgs (782.5 feet NAVD88). Lithium concentrations exceeded GWPS (0.04 mg/L) at PDI locations AP234-HRSC24-08 and AP234-HRSC24-09. The highest Li concentration in PDI groundwater samples (0.36 mg/L) was collected from AP234-HRSC24-09.

Signature Page

WSP USA Inc.

Nicholas McMillan, P.G.
Senior Consultant Geologist

Dawn L. Prell
Senior Consultant Hydrogeologist

Tables

TABLE 1
PRE-DESIGN INVESTIGATION BORING LOCATIONS
Georgia Power Company - Plant McDonough AP-2 and 3/4
Cobb County, Georgia

PDI Boring	Northing[(1)]	Easting[(1)]	Borehole Elevation[(1)] (ft)
AP234-HRSC24-01	1392036.3	2202144.3	813.1
AP234-HRSC24-02	1392067.5	2202311.0	812.1
AP234-HRSC24-03	1392226.7	2202500.3	816.3
AP234-HRSC24-04	1392275.1	2202585.8	817.3
AP234-HRSC24-08	1391734.6	2202495.9	801.0
AP234-HRSC24-09	1392020.8	2202764.7	808.3
AP234-HRSC24-10	1390952.1	2202070.7	783.7
AP234-HRSC24-11	1391114.4	2202251.8	784.5
AP234-HRSC24-12	1391117.7	2202406.8	784.8
AP234-HRSC24-13	1391349.6	2202614.2	789.0

Notes:

(1) Boring locations surveyed by Metro Engineering and Surveying Co., Inc. on May 28, 2024. Coordinates in North American Datum (NAD) 1983. State Plane, Georgia-West, feet. Elevations referenced to North American Vertical Datum of 1988 (NAVD88).

TABLE 2
SUMMARY OF GROUNDWATER FIELD PARAMETERS
Georgia Power Company - Plant McDonough-Atkinson
Ash Pond 2 and 3/4
Cobb County, Georgia

PDI Boring	Sample Date	Sample Elevation[(1)] (ft)	Sample Depth (ft BGS)	Field Parameters							
				Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH S.U.	ORP (mV)	Temperature (C°)	Turbidity[(3)] (NTU)	Ferrous Iron (mg/L)	Sulfide (mg/L)
AP234-HRSC24-04	3/27/2024	776.0	41.3	630	0.60	5.36	346	21.9	125	6.0	0.0
AP234-HRSC24-08[(2)]	3/23/2024	782.5	18.5	409	1.41	4.76	139	21.7	--	1.0	0.0
AP234-HRSC24-09	3/24/2024	779.8	28.5	427	3.53	4.29	427	19.8	9.87	2.0	0.0
AP234-HRSC24-10[(2)]	3/22/2024	761.5	22.2	507	2.98	4.59	200	19.8	--	1.0	0.0

Notes:
ft = feet
bgs = below ground surface
µS/cm = microsiemens per centimeter
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolts
C° = degrees Celsius
NTU = Nephelometric Turbidity Unit
(1) Boring locations surveyed by Metro Engineering and Surveying Co., Inc. on May 28, 2024. Elevations referenced to North American Vertical Datum of 1988 (NAVD88).
(2) Field parameters were provided by Cascade.
(3) Records of turbidity readings were lost during field activities for AP234-HRSC24-08 and AP234-HRSC24-10.

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
Georgia Power Company - Plant McDonough AP-2 and 3/4
Cobb County, Georgia

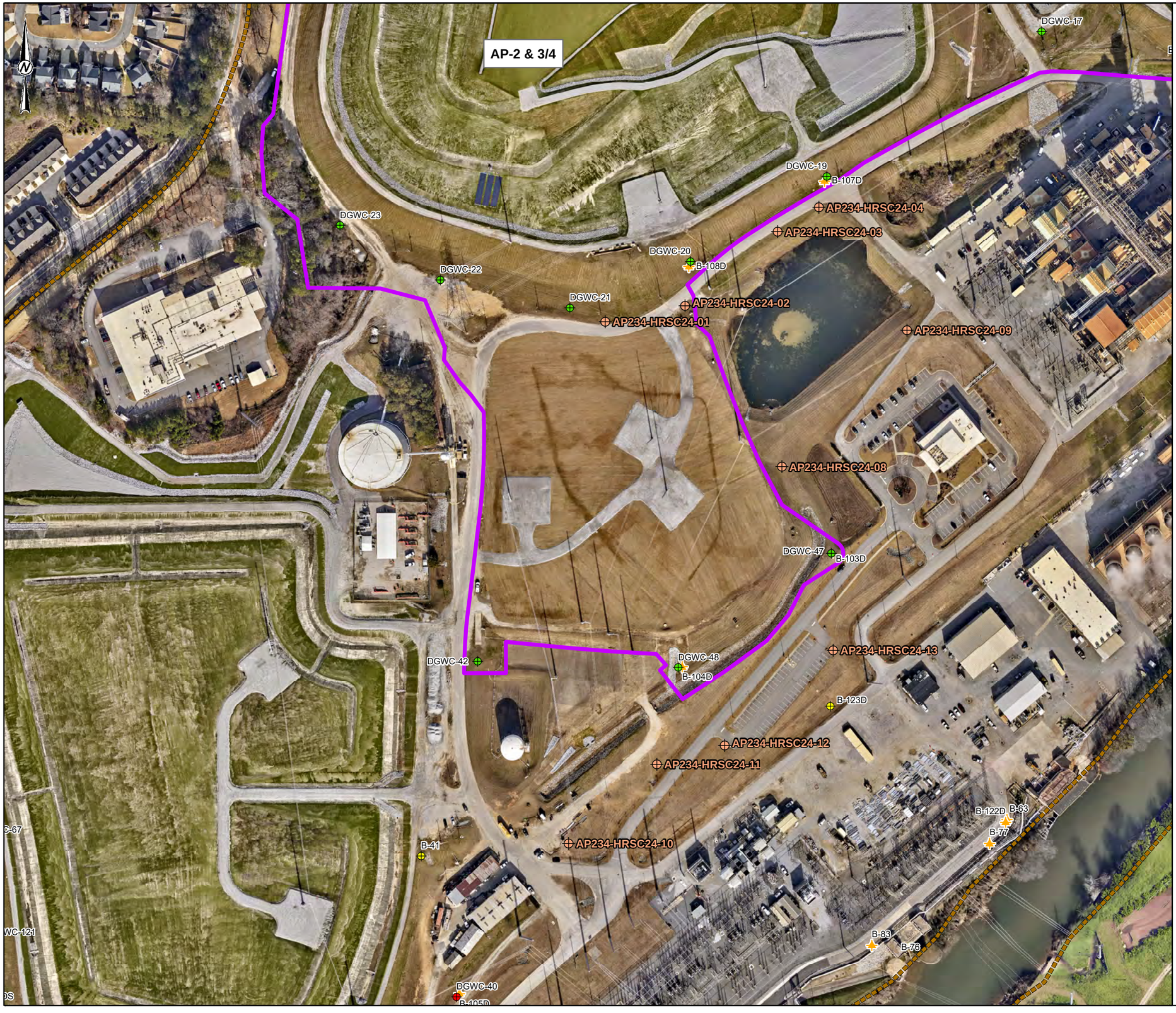
Analyte	Units	Waterloo[APS] Boring ID			
		MCD-AP234-HRSC24-04-41.3	MCD-AP234-HRSC24-08-18.5	MCD-AP234-HRSC24-09-28.5	MCD-AP234-HRSC24-10-22.2
		3/27/2024	3/23/2024	3/24/2024	3/22/2024
SAMPLE COLLECTION DEPTH (FT BGS)		41.30	18.50	28.50	22.20
Appendix III					
BORON, TOTAL	mg/L	2.6	0.18	0.22	0.56
CALCIUM, TOTAL	mg/L	49.3	36.0	11.4	45.0
CHLORIDE, TOTAL	mg/L	17.2	4.5	4.2	6.8
FLUORIDE, TOTAL	mg/L	0.57	0.30	0.77	0.30
pH	S.U.	6.42	4.17	4.13	4.59
SULFATE, TOTAL	mg/L	279	154	178	223
TOTAL DISSOLVED SOLIDS	mg/L	--	286	383	378
Appendix IV					
ARSENIC, TOTAL	mg/L	< 0.00084	< 0.00084	< 0.00084	0.0019 J
BERYLLIUM, TOTAL	mg/L	0.0028	0.013	0.022	0.0057
COBALT, TOTAL	mg/L	0.23	0.28	0.26	0.15
LITHIUM, TOTAL	mg/L	0.010 J	0.045	0.36	0.0095 J
Additional Parameters					
ALKALINITY , BICARBONATE	mg/L	11.0	< 5.0	< 5.0	< 5.0
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	11.0	< 5.0	< 5.0	< 5.0
MAGNESIUM	mg/L	20.6	9.7	5.0	8.6
MANGANESE	mg/L	5.5	10.2	2.9	5.1
ORTHOPHOSPHATE AS P	mg/L	< 0.0091	< 0.0091	< 0.0091	< 0.0091
POTASSIUM	mg/L	3.4	7.7	4.6	7.3
SODIUM	mg/L	28.4	7.0	3.1	22.2
IRON, FERROUS	mg/L	--	--	--	0.98
IRON, TOTAL	mg/L	6.4	1.3	39.1	1.1
SULFIDE	mg/L	< 0.022	< 0.022	< 0.022	< 0.022
TOTAL ORGANIC CARBON	mg/L	< 0.50	< 0.50	< 0.50	1.7
Field Results					
IRON, FERROUS	mg/L	1.0	1.0	2.0	1.0
SULFIDE	mg/L	0.0	0.0	0.0	0.0

Notes:

1. Depth discrete groundwater screening samples collected via Waterloo[APS] and field filtered.
2. ft bgs - feet below ground surface
3. mg/L - milligrams per Liter
4. S.U. - Standard Units
5. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
6. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
7. -- indicates substance not analyzed.

Created by: JMB 07/15/2024
Checked by: NJM 7/15/2024

Figures



LEGEND

- PDI BORING LOCATION
- AP-2,3/4 MONITORING WELL
- AP-1 MONITORING WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- PERMIT BOUNDARY
- PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. BORING LOCATIONS SURVEYED BY METRO ENGINEERING & SURVEYING ON MAY 28, 2024.
2. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JANUARY 25, 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

0 200 400

1 IN= 200 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
PRE-DESIGN INVESTIGATION BORING LOCATIONS

CONSULTANT

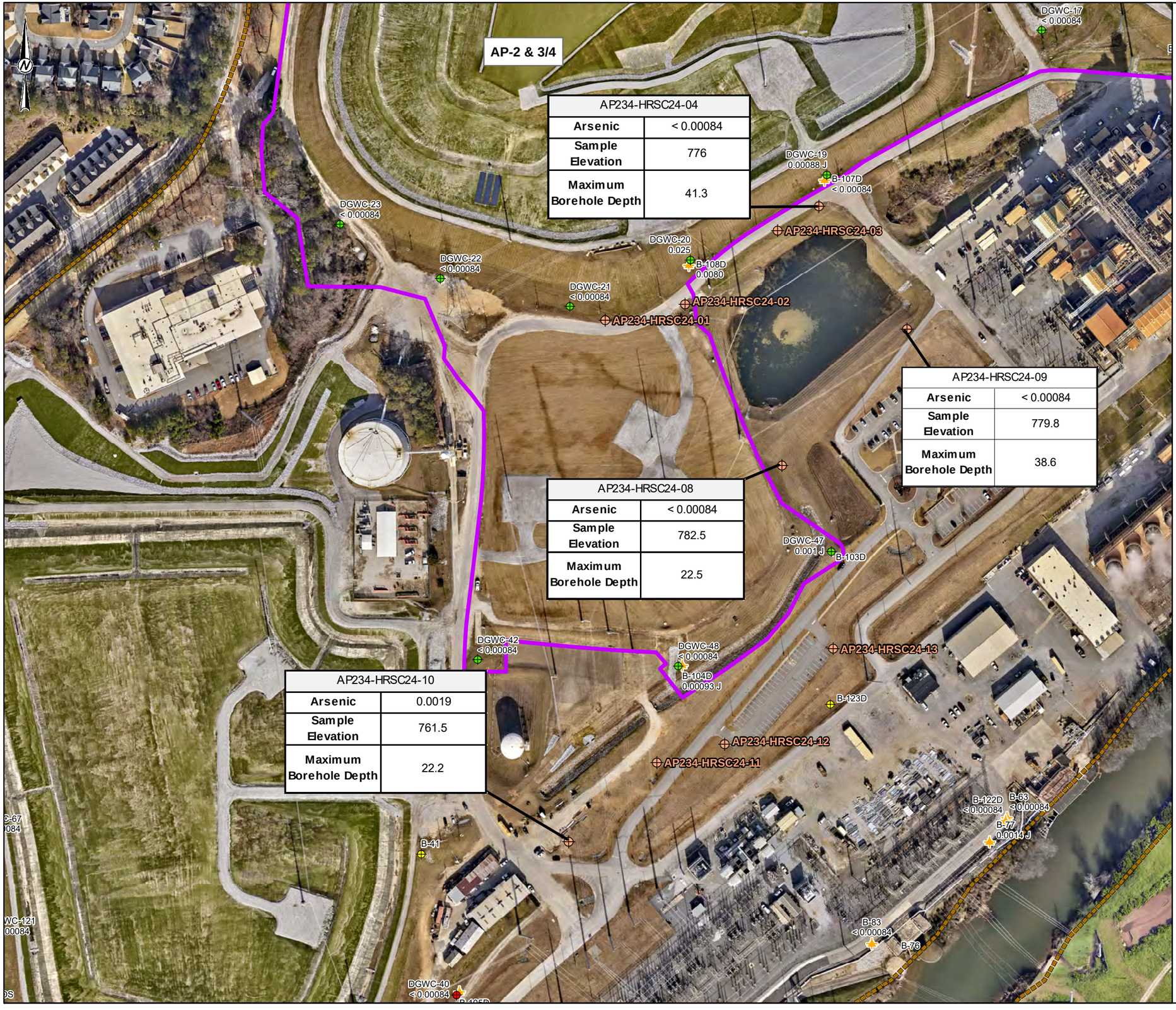
wsp

YYYY-MM-DD	2025-01-08
PREPARED	JMB
DESIGN	NJM
CHECKED	NJM
REVIEWED/APPROVED	DLP

PROJECT No. 31406440

Rev. 1

FIGURE **1**



LEGEND

- PDI BORING LOCATION
- AP-2,3/4 MONITORING WELL
- AP-1 MONITORING WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
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- PROPERTY BOUNDARY

NOTES

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<= PARAMETER NOT DETECTED ABOVE THE REPORTING LIMIT (RL).
3. PDI SCREENING GROUNDWATER SAMPLES WERE FIELD FILTERED USING A 0.45 MICRON FILTER.
4. THE GROUNDWATER PROTECTION STANDARD (GWPS) FOR ARSENIC IS 0.01 MG/L.
5. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JANUARY 25, 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

0 200 400

1 IN= 200 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
PRE-DESIGN INVESTIGATION ARSENIC CONCENTRATION DATA

CONSULTANT

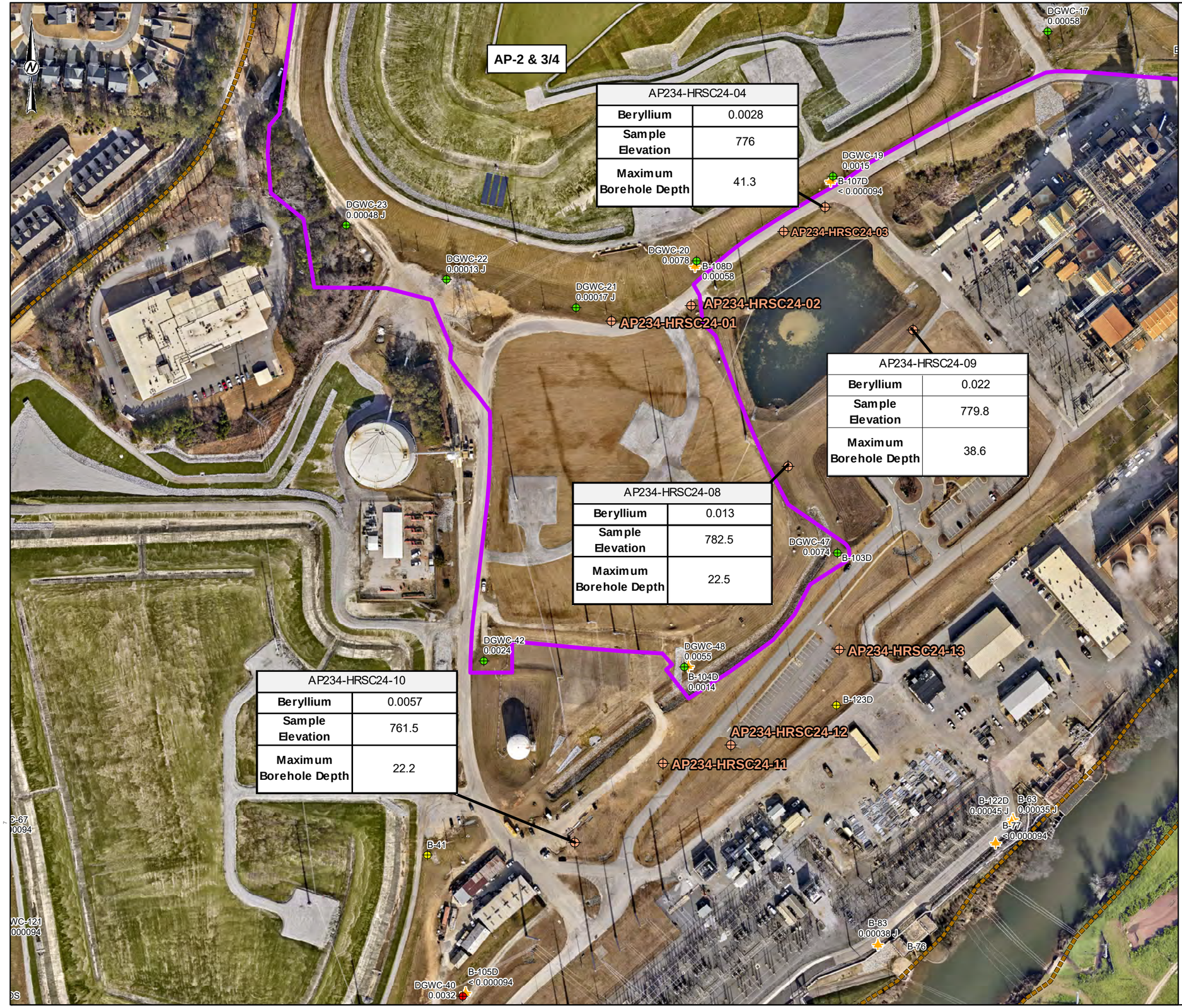
wsp

YYYY-MM-DD	2025-01-08
PREPARED	JMB
DESIGN	NJM
CHECKED	NJM
REVIEWED/APPROVED	DLP

PROJECT No. 31406440

Rev. 1

FIGURE 2



LEGEND

- PDI BORING LOCATION
- AP-2,3/4 MONITORING WELL
- AP-1 MONITORING WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
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3. PDI SCREENING GROUNDWATER SAMPLES WERE FIELD FILTERED USING A 0.45 MICRON FILTER.
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0 200 400

1 IN= 200 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
PRE-DESIGN INVESTIGATION BERYLLIUM CONCENTRATION DATA

CONSULTANT

YYYY-MM-DD	2025-01-08
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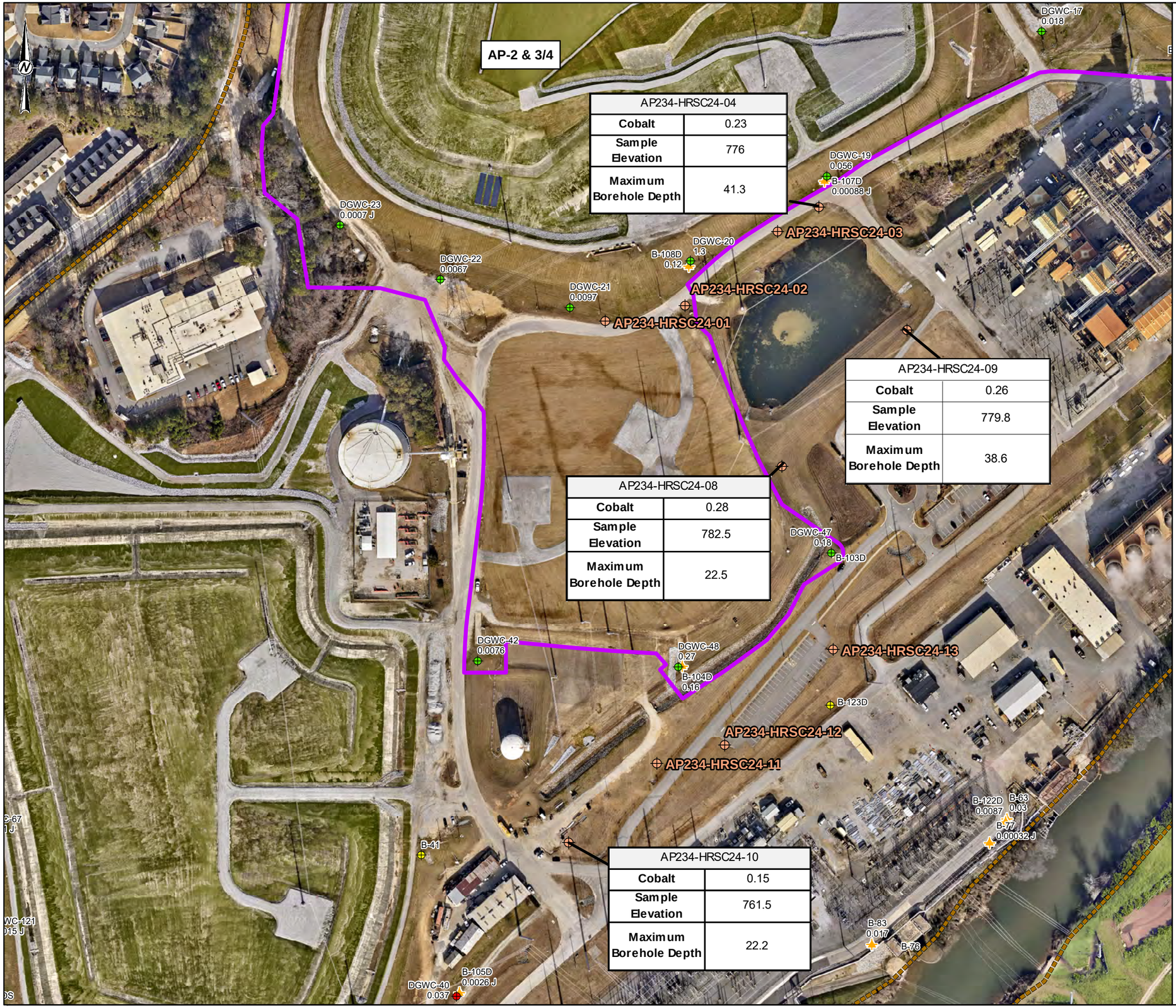
CHECKED	NJM
REVIEWED/APPROVED	DLP

PROJECT No. 31406440
Rev. 1
FIGURE 3



LEGEND

- PDI BORING LOCATION
- AP-2,3/4 MONITORING WELL
- AP-1 MONITORING WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
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- PROPERTY BOUNDARY

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3. PDI SCREENING GROUNDWATER SAMPLES WERE FIELD FILTERED USING A 0.45 MICRON FILTER.
4. THE GROUNDWATER PROTECTION STANDARD (GWPS) FOR COBALT IS 0.024 MG/L.
5. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JANUARY 25, 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

0 200 400

1 IN= 200 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

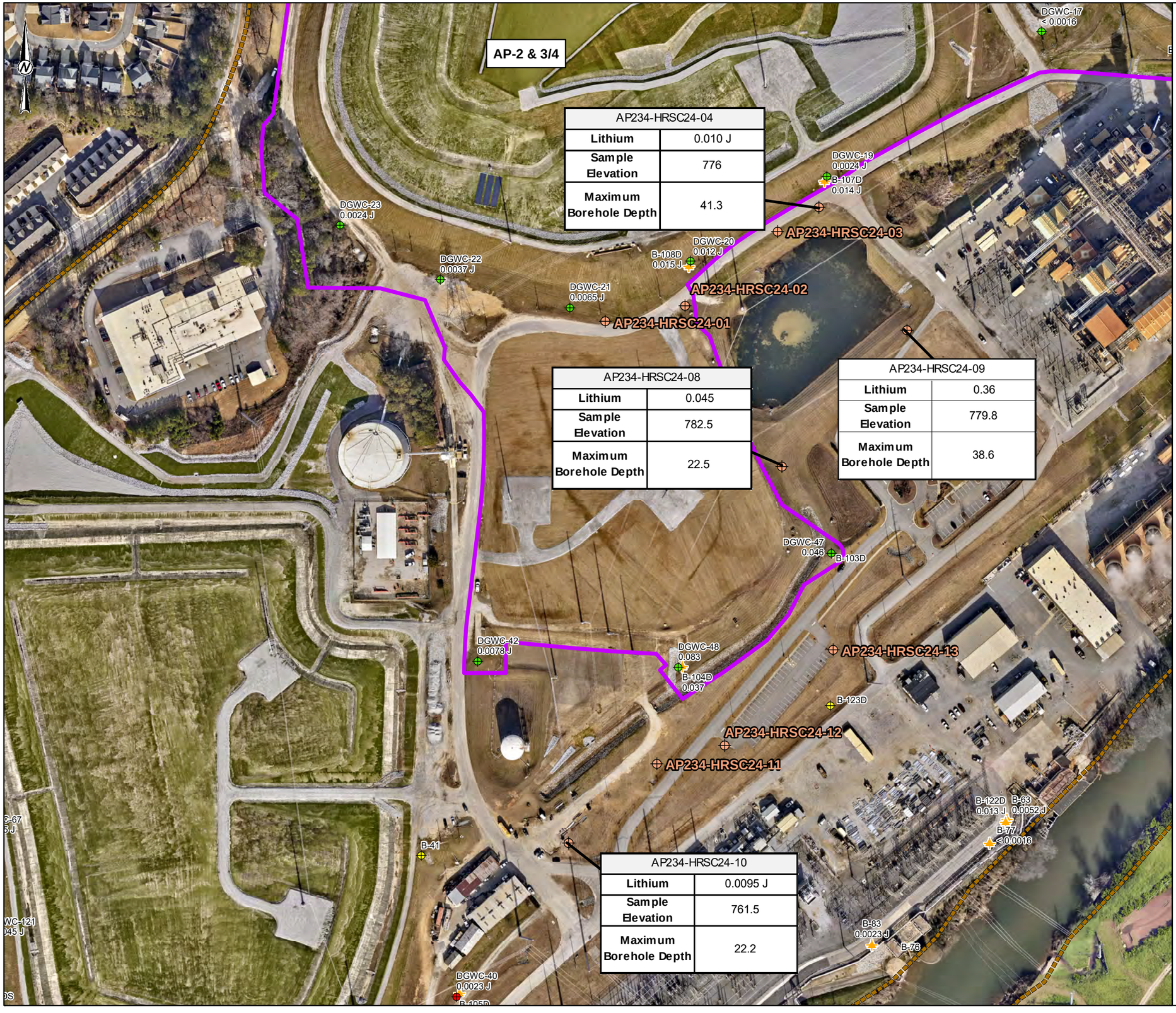
PROJECT
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
PRE-DESIGN INVESTIGATION COBALT CONCENTRATION DATA

CONSULTANT

YYYY-MM-DD	2025-01-08
PREPARED	JMB
DESIGN	NJM
CHECKED	NJM
REVIEWED/APPROVED	DLP

PROJECT No. 31406440
Rev. 1
FIGURE 4



LEGEND

- PDI BORING LOCATION
- AP-2,3/4 MONITORING WELL
- AP-1 MONITORING WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
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0 200 400

1 IN= 200 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
PRE-DESIGN INVESTIGATION LITHIUM CONCENTRATION DATA

CONSULTANT

YYYY-MM-DD	2025-01-08
PREPARED	JMB
DESIGN	NJM
CHECKED	NJM
REVIEWED/APPROVED	DLP

PROJECT No. 31406440
Rev. 1
FIGURE **5**

APPENDIX A

Waterloo^{APS} Logs

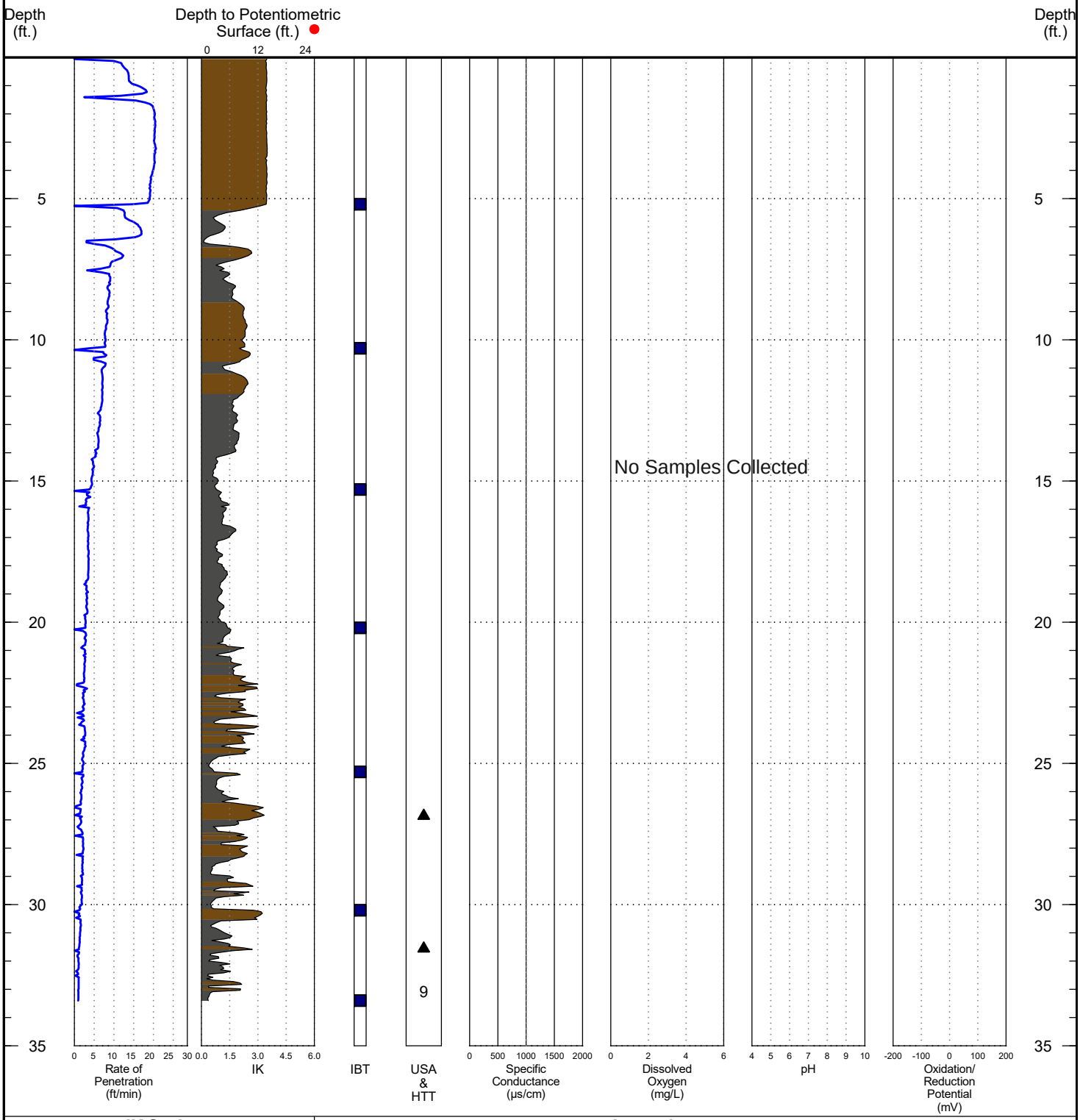
BORING NAME: AP234-HRSC24-01

Total Depth 33.4 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/24/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

Legend

IBT = IK Behavior Type
- = IK increase when hammer stops
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- = No change when hammer stops

USA = Unsuccessful Sample Attempt
- ✳ = Could not produce water
- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

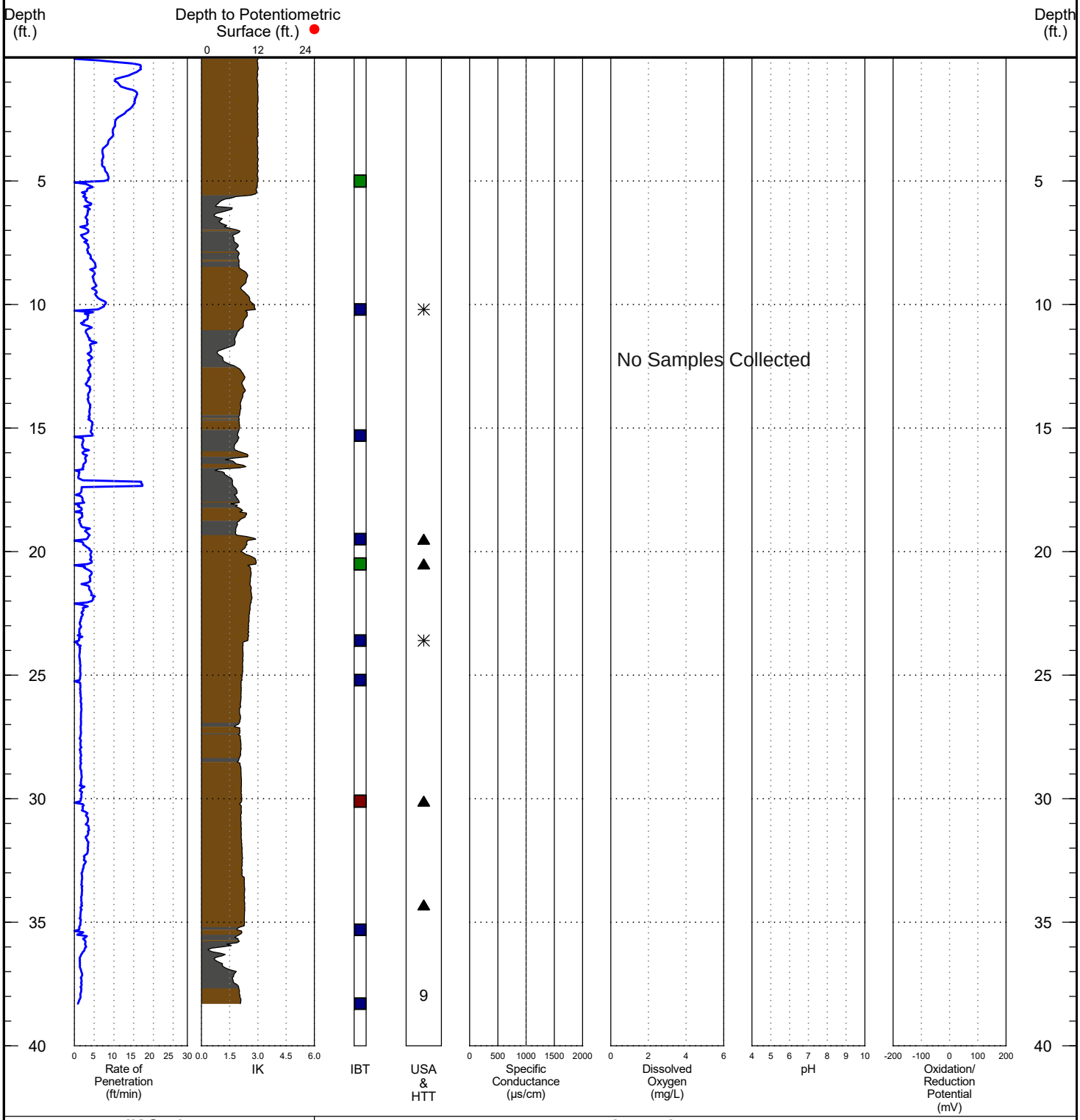
BORING NAME: AP234-HRSC24-02

Total Depth 38.3 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/22/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

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HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

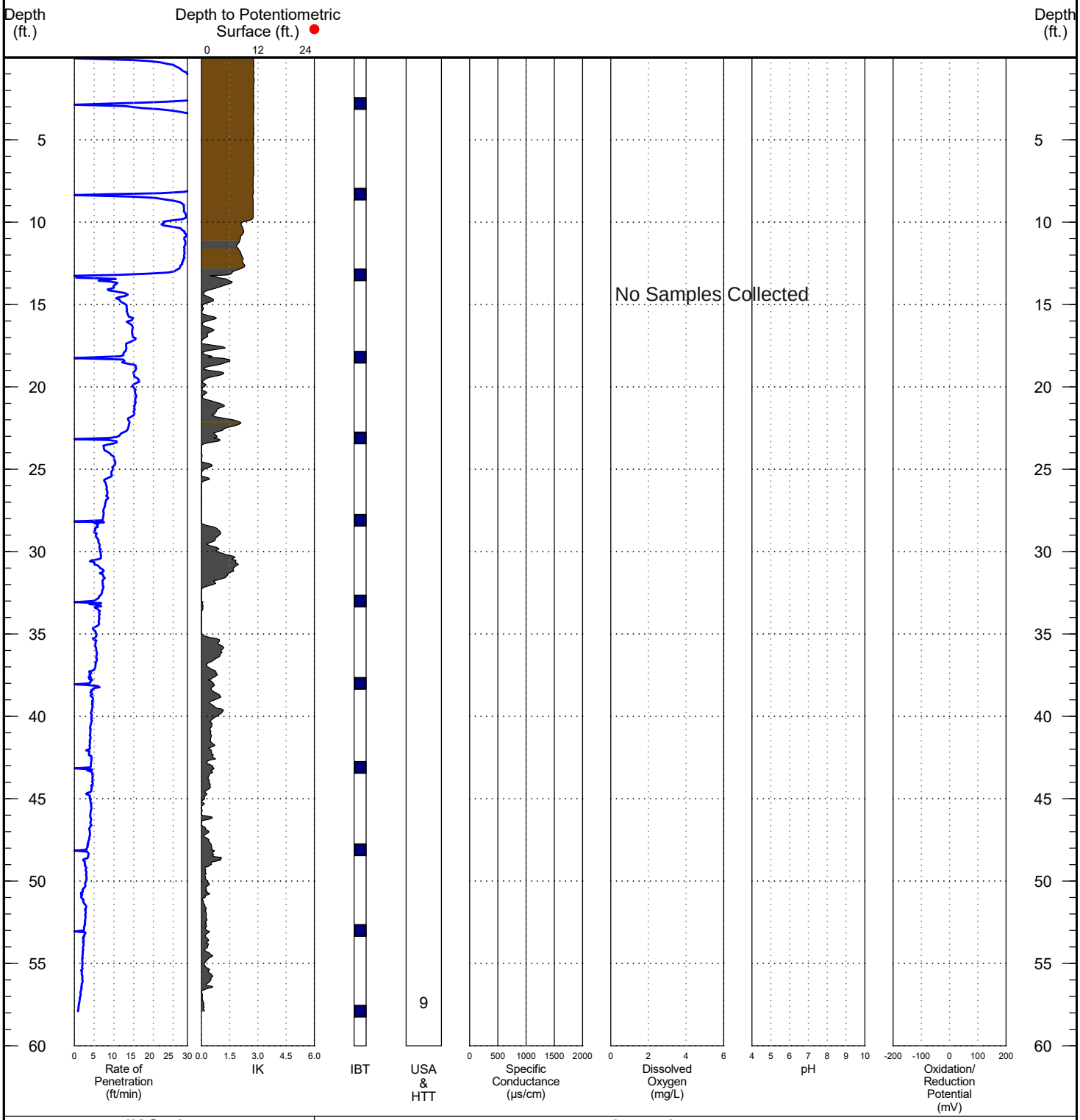
BORING NAME: AP234-HRSC24-03

Total Depth 57.9 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/26/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

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HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

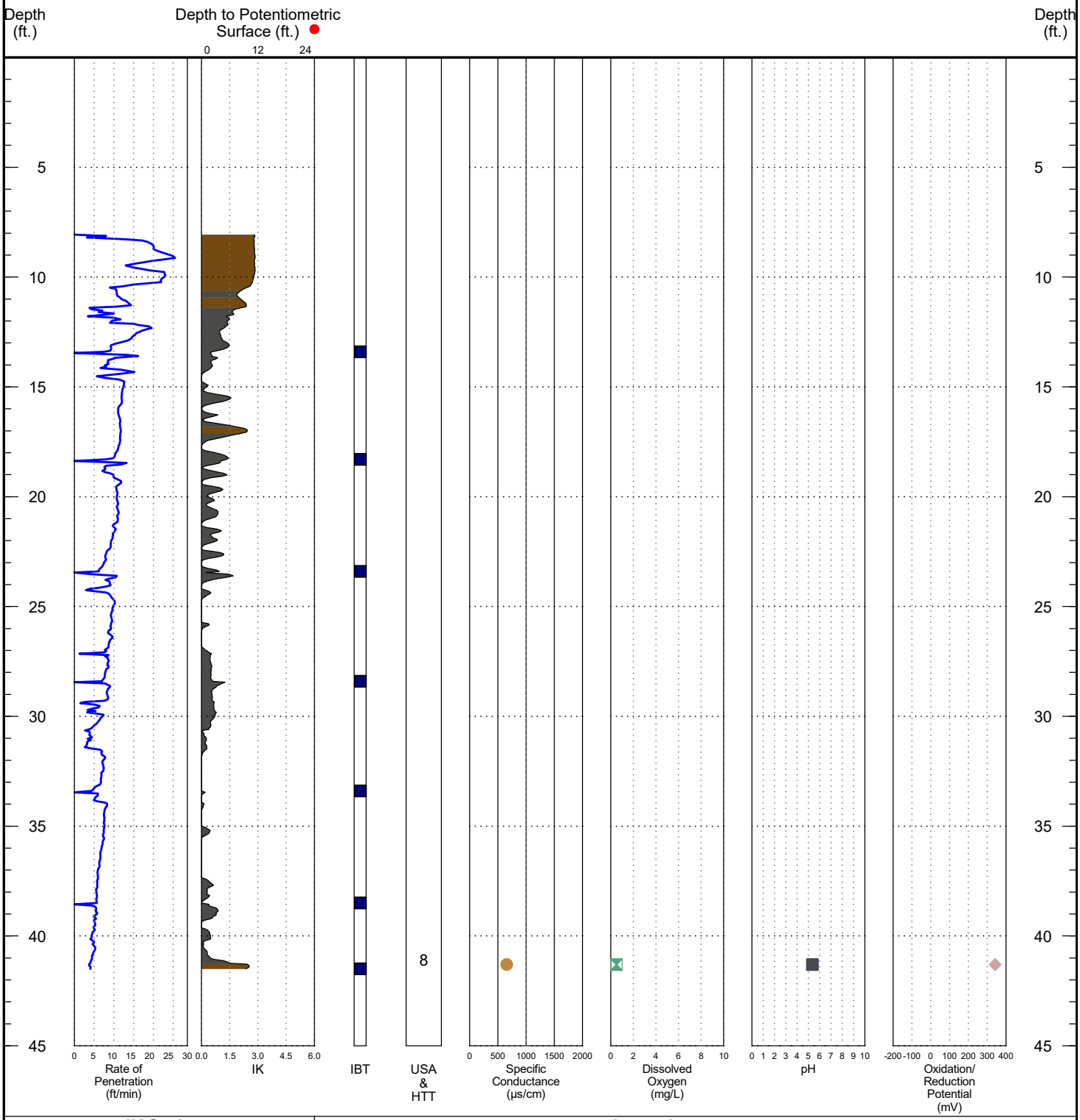
BORING NAME: AP234-HRSC24-04

Total Depth -41.5 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Companies
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/27/2024
Sampler(s) JE
Drilling Contractor Cascade
Gas Drive or Peri Pump Gas Drive



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

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- ■ = Equipment issue

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- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

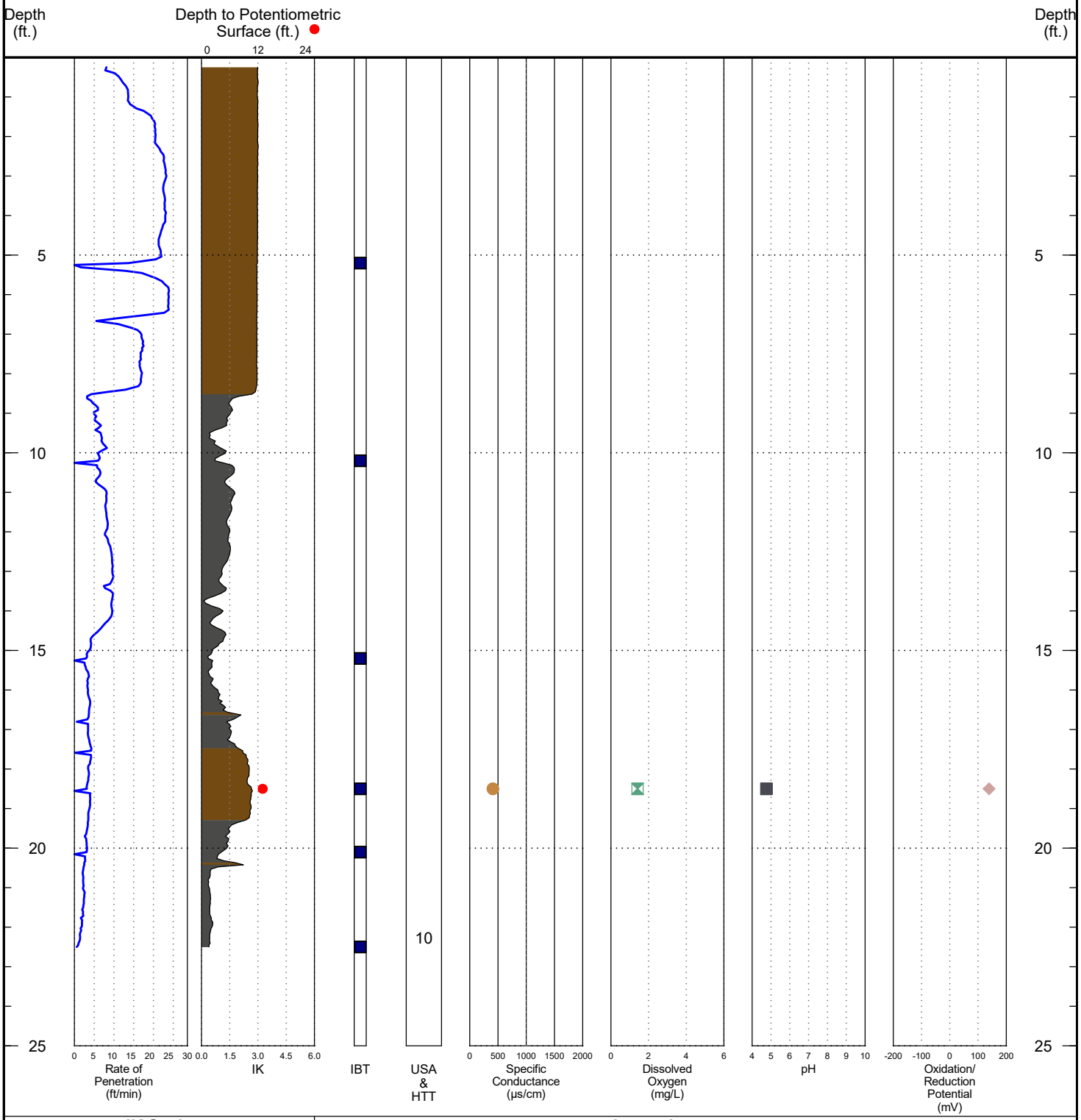
BORING NAME: AP234-HRSC24-08

Total Depth 22.5 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/23/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

Legend

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USA = Unsuccessful Sample Attempt
- ✳ = Could not produce water
- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

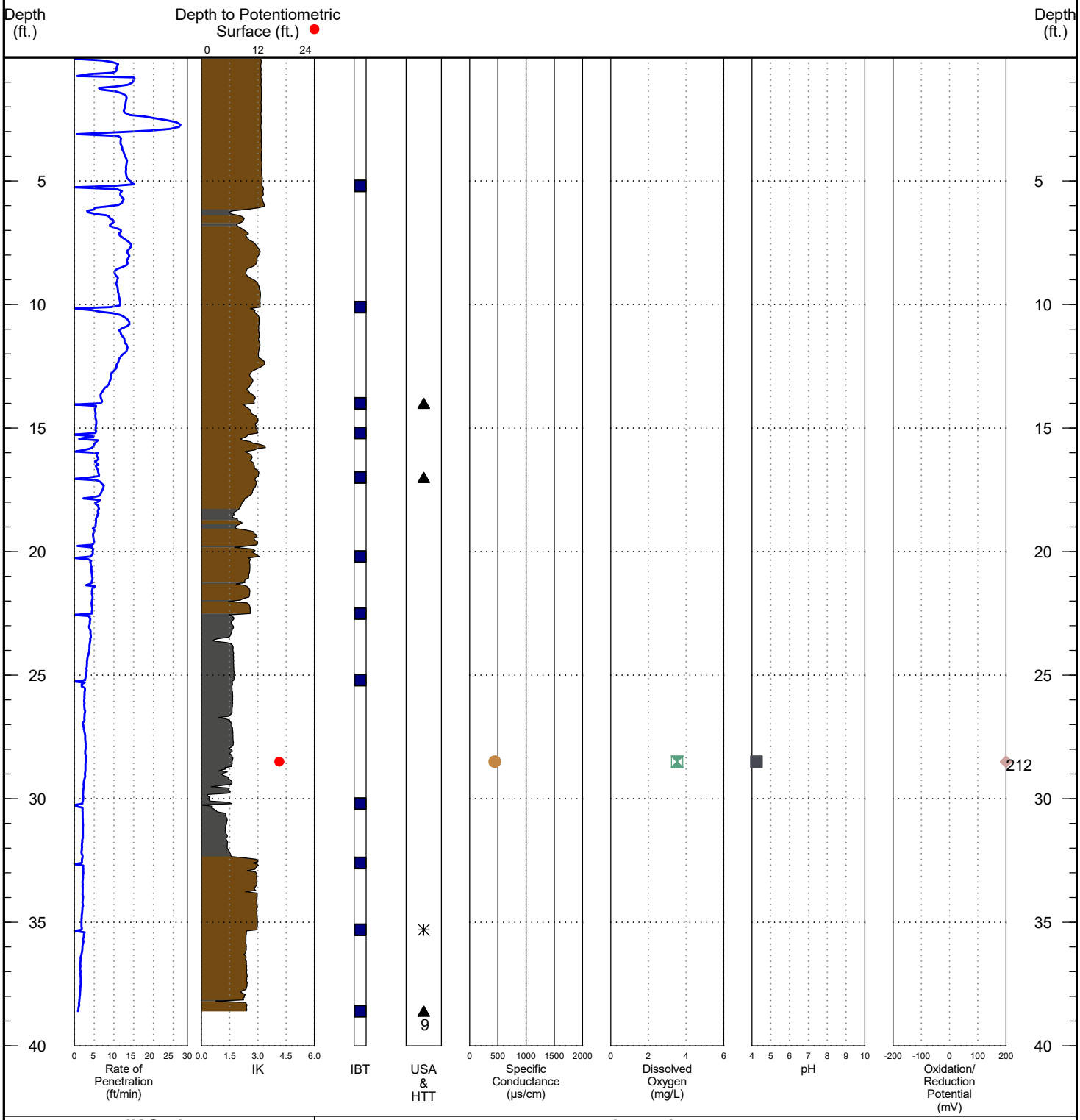
BORING NAME: AP234-HRSC24-09

Total Depth 38.6 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/24/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

Legend

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- = IK decrease when hammer stops
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USA = Unsuccessful Sample Attempt
- ✳ = Could not produce water
- ▲ = Yield deemed too slow
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HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

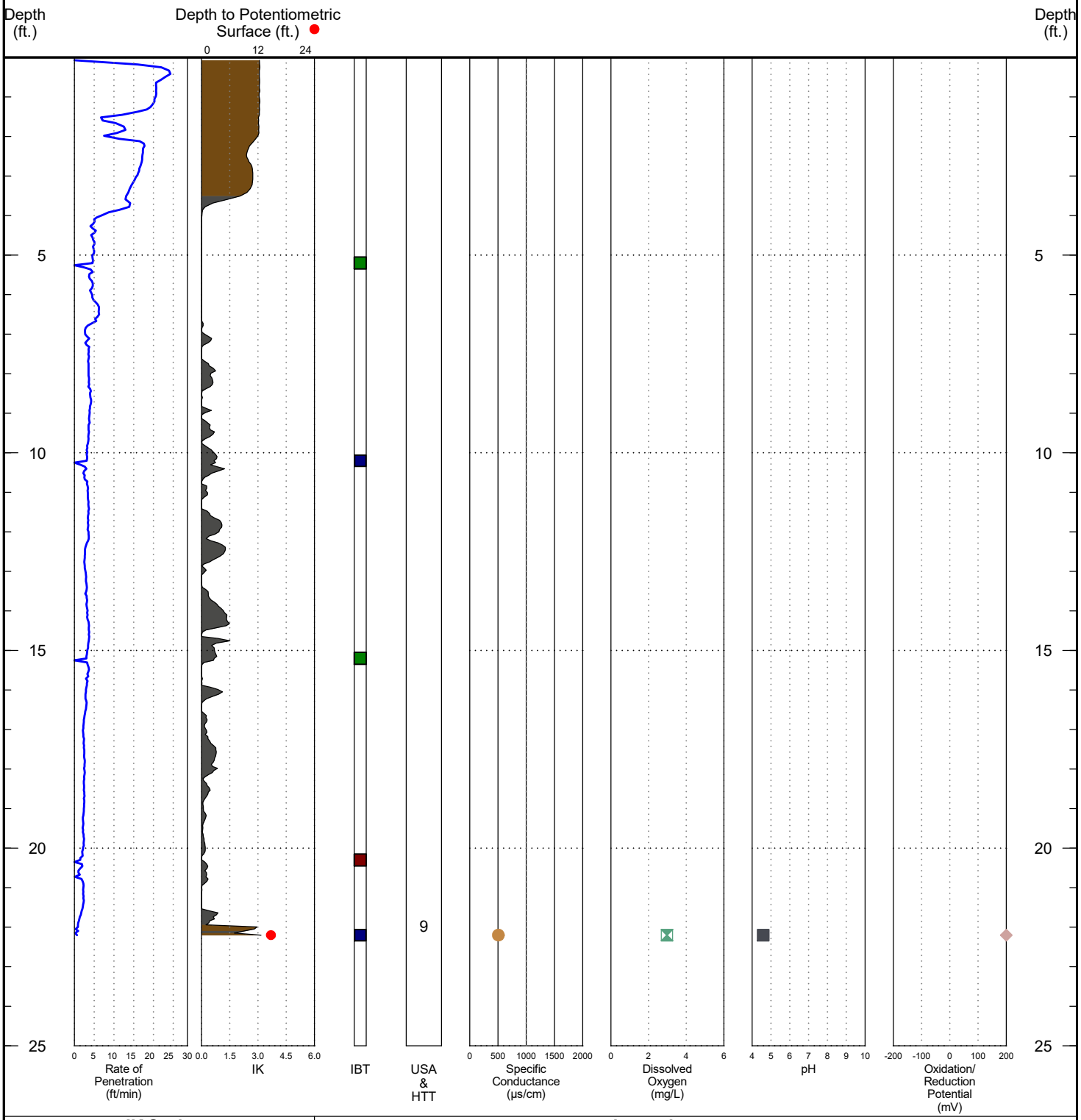
BORING NAME: AP234-HRSC24-10

Total Depth 22.2 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/22/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

Legend

IBT = IK Behavior Type
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- = IK decrease when hammer stops
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- ✳ = Could not produce water
- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

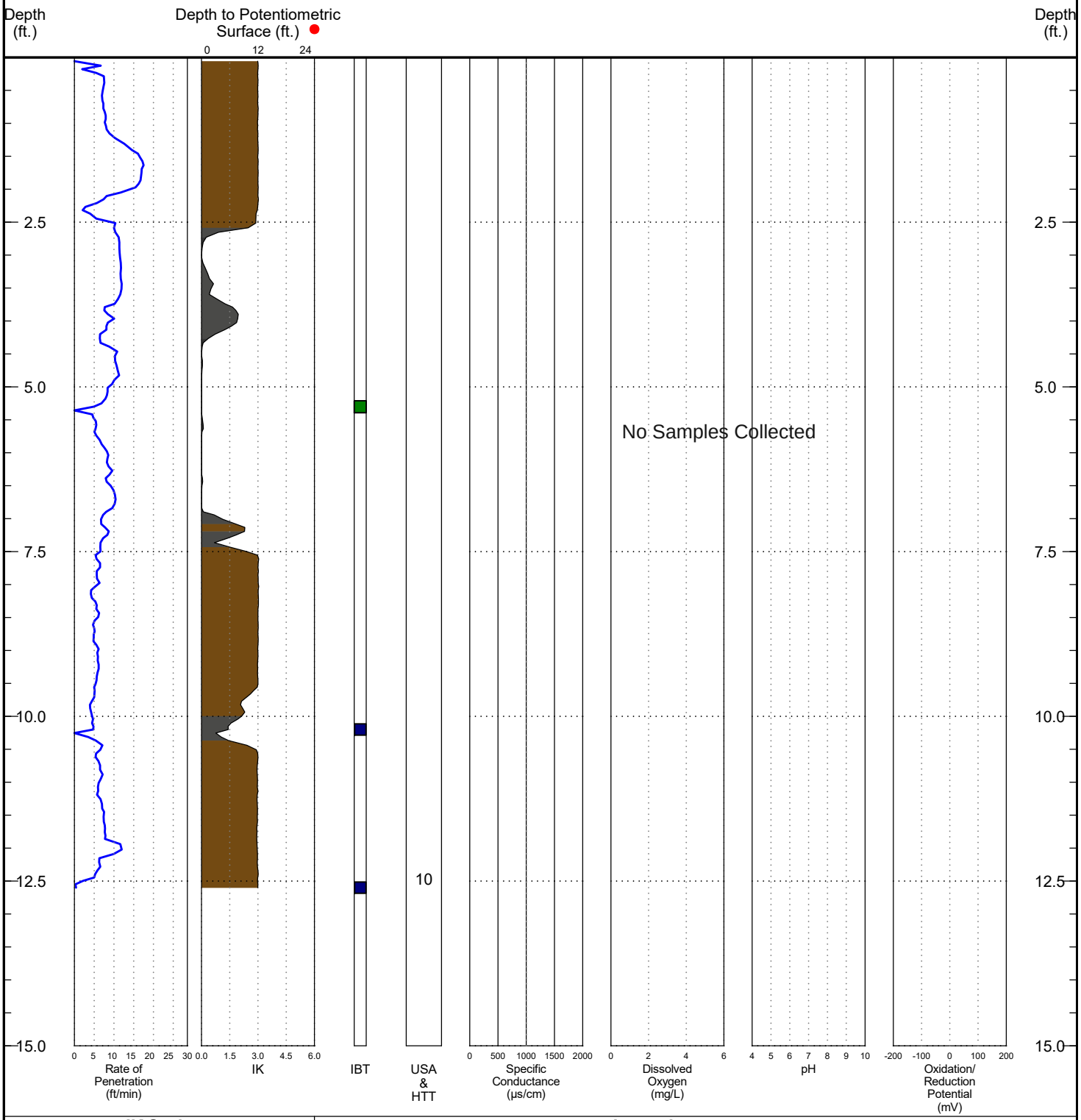
BORING NAME: AP234-HRSC24-11

Total Depth 12.6 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/22/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

Legend

IBT = IK Behavior Type
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- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

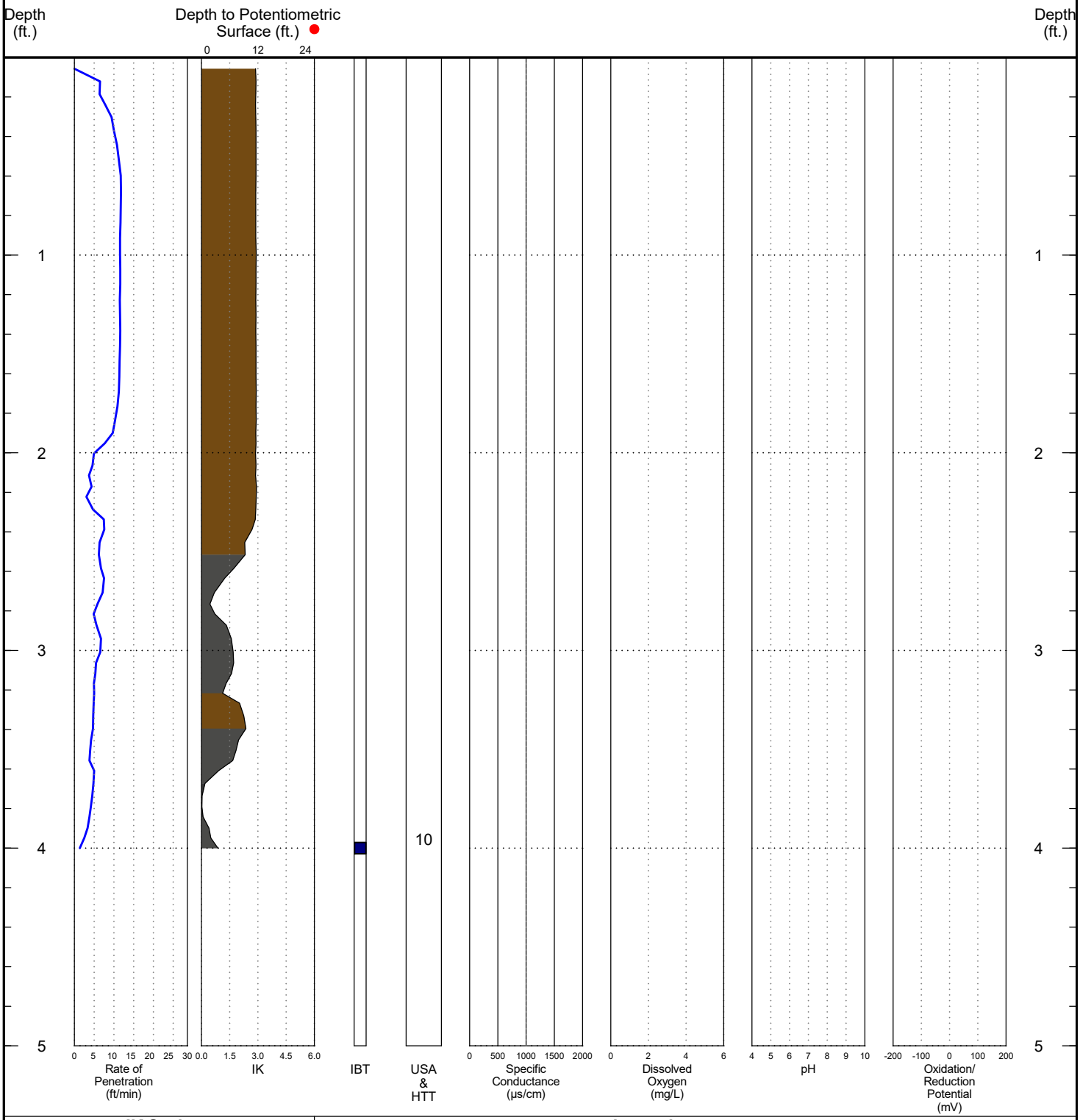
BORING NAME: AP234-HRSC24-12

Total Depth 4 ft.

Waterloo APS-D™
ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/23/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

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HTT = Hole Termination Type
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- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

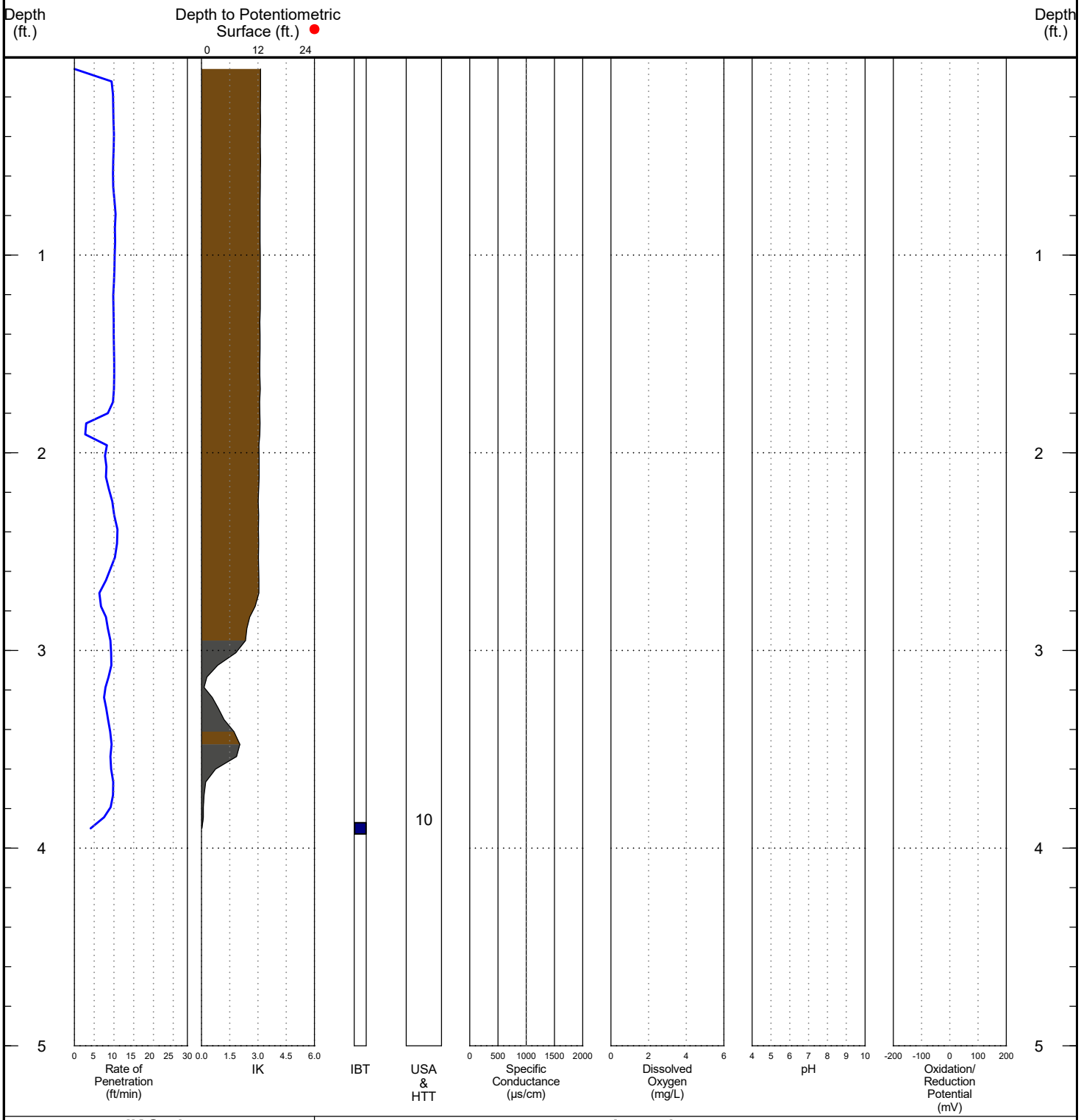
BORING NAME: AP234-HRSC24-13

Total Depth 3.9 ft.

Waterloo APS-D™ ADVANCED PROFILING SYSTEM

Project Name Plant McDonough
Client Southern Company
Project Number 206-24-1009
Project Location Smyrna, GA

Date Completed 3/23/2024
Sampler(s) JE/MP
Drilling Contractor Cascade
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1
0.1 to 2
2 to 4
4 to 6
>6

Legend

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HTT = Hole Termination Type
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- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

APPENDIX B

Analytical Laboratory Report

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 06, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92721964001	**MCD-AP234-HRSC24-04-41.3**	Water	03/27/24 13:00	03/28/24 11:05

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92721964001	**MCD-AP234-HRSC24-04-41.3**	EPA 6010D	DRB	6
		EPA 6020B	MT1	5
		SM 4500-P E-2011	TBM	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		SM 5310B-2014	MJP	1

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

Sample: MCD-AP234-HRSC24-04-41.3 **Lab ID: 92721964001** Collected: 03/27/24 13:00 Received: 03/28/24 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**49.3**	mg/L	1.0	0.12	1	04/04/24 12:09	04/04/24 17:02	7440-70-2	M1
Iron	**6.4**	mg/L	0.040	0.025	1	04/04/24 12:09	04/04/24 17:02	7439-89-6	M1
Magnesium	**20.6**	mg/L	0.050	0.012	1	04/04/24 12:09	04/04/24 17:02	7439-95-4	M1
Manganese	**5.5**	mg/L	0.040	0.011	1	04/04/24 12:09	04/04/24 17:02	7439-96-5	M1
Potassium	**3.4**	mg/L	0.50	0.15	1	04/04/24 12:09	04/04/24 17:02	7440-09-7	M1
Sodium	**28.4**	mg/L	1.0	0.58	1	04/04/24 12:09	04/04/24 17:02	7440-23-5	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	03/30/24 09:09	04/01/24 14:40	7440-38-2	
Beryllium	**0.0028**	mg/L	0.00050	0.000094	1	03/30/24 09:09	04/01/24 14:40	7440-41-7	
Boron	**2.6**	mg/L	0.040	0.012	1	03/30/24 09:09	04/01/24 14:40	7440-42-8	
Cobalt	**0.23**	mg/L	0.0050	0.00032	1	03/30/24 09:09	04/01/24 14:40	7440-48-4	
Lithium	**0.010J**	mg/L	0.030	0.0016	1	03/30/24 09:09	04/01/24 14:40	7439-93-2	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E-2011 Pace Analytical Services - Peachtree Corners, GA								
Orthophosphate as P	ND	mg/L	0.020	0.0091	1		03/28/24 18:40		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**11.0**	mg/L	5.0	5.0	1		04/04/24 16:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/04/24 16:22		
Alkalinity, Total as CaCO3	**11.0**	mg/L	5.0	5.0	1		04/04/24 16:22		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		03/30/24 05:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.2**	mg/L	1.0	0.60	1		03/31/24 02:35	16887-00-6	
Fluoride	**0.57**	mg/L	0.10	0.050	1		03/31/24 02:35	16984-48-8	
Sulfate	**279**	mg/L	6.0	3.0	6		03/31/24 09:12	14808-79-8	
5310B TOC	Analytical Method: SM 5310B-2014 Pace Analytical Services - Asheville								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		04/09/24 06:53	7440-44-0	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

QC Batch: 844345
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721964001

METHOD BLANK: 4360613 Matrix: Water
Associated Lab Samples: 92721964001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	04/04/24 16:43	
Iron	mg/L	ND	0.040	0.025	04/04/24 16:43	
Magnesium	mg/L	ND	0.050	0.012	04/04/24 16:43	
Manganese	mg/L	ND	0.040	0.011	04/04/24 16:43	
Potassium	mg/L	ND	0.50	0.15	04/04/24 16:43	
Sodium	mg/L	ND	1.0	0.58	04/04/24 16:43	

LABORATORY CONTROL SAMPLE: 4360614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Manganese	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.90	90	80-120	
Sodium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4360615 4360616

Parameter	Units	92721964001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	49.3	1	1	47.7	50.3	-155	98	75-125	5	20	M1
Iron	mg/L	6.4	1	1	7.0	7.4	56	95	75-125	5	20	M1
Magnesium	mg/L	20.6	1	1	20.5	21.6	-9	96	75-125	5	20	M1
Manganese	mg/L	5.5	1	1	6.1	6.4	60	85	75-125	4	20	M1
Potassium	mg/L	3.4	1	1	4.1	4.2	72	87	75-125	4	20	M1
Sodium	mg/L	28.4	1	1	28.3	29.6	-16	117	75-125	5	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

QC Batch: 843086
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721964001

METHOD BLANK: 4354006 Matrix: Water
Associated Lab Samples: 92721964001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	04/01/24 14:15	
Beryllium	mg/L	ND	0.00050	0.000094	04/01/24 14:15	
Boron	mg/L	ND	0.040	0.012	04/01/24 14:15	
Cobalt	mg/L	ND	0.0050	0.00032	04/01/24 14:15	
Lithium	mg/L	ND	0.030	0.0016	04/01/24 14:15	

LABORATORY CONTROL SAMPLE: 4354007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lithium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4354008 4354009

Parameter	Units	92719265005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	0	20	
Boron	mg/L	122 ug/L	1	1	1.1	1.1	98	99	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.12	0.11	97	96	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

QC Batch: 842669
QC Batch Method: SM 4500-P E-2011
Analysis Method: SM 4500-P E-2011
Analysis Description: SM4500P-E Phosphorus, Ortho
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721964001

METHOD BLANK: 4352204 Matrix: Water
Associated Lab Samples: 92721964001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.020	0.0091	03/28/24 18:31	

LABORATORY CONTROL SAMPLE: 4352205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4352224 4352225

Parameter	Units	92721819001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	0.5	0.5	0.50	0.50	101	100	80-120	1	10	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

QC Batch: 844066
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721964001

METHOD BLANK: 4359137 Matrix: Water
Associated Lab Samples: 92721964001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/04/24 14:49	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/04/24 14:49	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/04/24 14:49	

LABORATORY CONTROL SAMPLE: 4359138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

LABORATORY CONTROL SAMPLE: 4359139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4361184 4361185

Parameter	Units	92721964001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	11.0	50	50	52.2	51.7	82	81	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4362018 4362019

Parameter	Units	92722095002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	111	50	50	158	162	95	102	80-120	2	25	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

QC Batch: 843053
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721964001

METHOD BLANK: 4353942 Matrix: Water
Associated Lab Samples: 92721964001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	03/30/24 05:01	

LABORATORY CONTROL SAMPLE: 4353943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4353944 4353945

Parameter	Units	92721500001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.52	107	103	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4353946 4353947

Parameter	Units	92722050003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.51	105	102	80-120	3	10	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

QC Batch: 843098
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721964001

METHOD BLANK: 4354054 Matrix: Water
Associated Lab Samples: 92721964001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/30/24 20:41	
Fluoride	mg/L	ND	0.10	0.050	03/30/24 20:41	
Sulfate	mg/L	ND	1.0	0.50	03/30/24 20:41	

LABORATORY CONTROL SAMPLE: 4354055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4354056 4354057

Parameter	Units	92721937001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.5	50	50	58.5	58.5	100	100	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	108	107	90-110	1	10	
Sulfate	mg/L	ND	50	50	51.5	51.5	101	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4354058 4354059

Parameter	Units	92722002001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	50	50	50.2	50.9	97	99	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	103	90-110	0	10	
Sulfate	mg/L	1.7	50	50	51.0	51.6	99	100	90-110	1	10	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

QC Batch: 845187
QC Batch Method: SM 5310B-2014
Analysis Method: SM 5310B-2014
Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721964001

METHOD BLANK: 4364393 Matrix: Water
Associated Lab Samples: 92721964001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	04/09/24 02:02	

LABORATORY CONTROL SAMPLE: 4364394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4364395 4364396

Parameter	Units	92720194002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	35.8	25	25	69.0	68.2	133	130	90-110	1	10	M1,P4

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4364397 4364398

Parameter	Units	92720194004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	24.2	24.2	97	97	90-110	0	10	

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QUALIFIERS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721964

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92721964001	**MCD-AP234-HRSC24-04-41.3**	EPA 3010A	844345	EPA 6010D	844432
92721964001	**MCD-AP234-HRSC24-04-41.3**	EPA 3005A	843086	EPA 6020B	843139
92721964001	**MCD-AP234-HRSC24-04-41.3**	SM 4500-P E-2011	842669		
92721964001	**MCD-AP234-HRSC24-04-41.3**	SM 2320B-2011	844066		
92721964001	**MCD-AP234-HRSC24-04-41.3**	SM 4500-S2D-2011	843053		
92721964001	**MCD-AP234-HRSC24-04-41.3**	EPA 300.0 Rev 2.1 1993	843098		
92721964001	**MCD-AP234-HRSC24-04-41.3**	SM 5310B-2014	845187		

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Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech[illegible] ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power **Project #:**

WO# : 92721964

92721964

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 3/18 SDR

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) 0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☑ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92721964

PM: BV Due Date: 04/11/24

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		3				1	1												2										
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Georgia Power- McDonough	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	(470)620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	MCD-AP-2, 3/4 Boring Locations	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0004
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [X] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 | | 3 | 4 | 6 | 3 | | 3 | | |

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 80mL, (10) Other

Identify Container Preservative Type***: 1 | | 1 | 5+6 | 1 | 2 | | 1 | | |

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	2540C Total Dissolved Solids	300.0 - SO4, Cl, F	4500S2D Sulfide Water	5310B TOC	App III 6010/6020	Iron, Ferrous	SM4500P-E, Phosphate, Ortho			Sample Comment	Preservation non-conformance identified for sample.
AP234-11RSC24-04-41.3	GW	G	3/27/24	1300	—	—	7			1		1	1	2	1		1				

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16474; Prelog / Bottle Ord. ID: EZ 3087449

Additional Instructions from Pace®:
*Appendix III, Be, Co, Li, As, Mn, Mg, Fe, [redacted], Na, K, S2-, Alkalinity (total/carbonate/bicarbonate), PO4, Total Organic Carbon.
* Appendix III: B, Ca

Collected By: (Printed Name) Dana Bloomfield
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature) WSP	Date/Time: 3/28/24 1105	Received by/Company: (Signature)	Date/Time: 3/28/24 1105	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 7

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 04, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on March 25, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92721029001	**MCD-AP234-HRSC24-08-18.5**	Water	03/23/24 12:45	03/25/24 09:30
92721029002	**MCD-AP234-HRSC24-09-28.5**	Water	03/24/24 11:30	03/25/24 09:30

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SAMPLE ANALYTE COUNT

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92721029001	**MCD-AP234-HRSC24-08-18.5**	EPA 6010D	DRB	6
		EPA 6020B	MT1	5
		SM 4500-P E-2011	TLB1	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		SM 5310B-2014	MJP	1
92721029002	**MCD-AP234-HRSC24-09-28.5**	EPA 6010D	DRB	6
		EPA 6020B	MT1	5
		SM 4500-P E-2011	TLB1	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		SM 5310B-2014	MJP	1

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

Sample: MCD-AP234-HRSC24-08-18.5 **Lab ID: 92721029001** Collected: 03/23/24 12:45 Received: 03/25/24 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**36.0**	mg/L	1.0	0.12	1	03/28/24 18:16	04/01/24 17:03	7440-70-2	
Iron	**1.3**	mg/L	0.040	0.025	1	03/28/24 18:16	04/01/24 17:03	7439-89-6	
Magnesium	**9.7**	mg/L	0.050	0.012	1	03/28/24 18:16	04/01/24 17:03	7439-95-4	
Manganese	**10.2**	mg/L	0.040	0.011	1	03/28/24 18:16	04/01/24 17:03	7439-96-5	
Potassium	**7.7**	mg/L	0.50	0.15	1	03/28/24 18:16	04/01/24 17:03	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	03/28/24 18:16	04/01/24 17:03	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	03/27/24 13:16	03/28/24 17:53	7440-38-2	
Beryllium	**0.013**	mg/L	0.00050	0.000094	1	03/27/24 13:16	03/28/24 17:53	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.012	1	03/27/24 13:16	03/28/24 17:53	7440-42-8	
Cobalt	**0.28**	mg/L	0.0050	0.00032	1	03/27/24 13:16	03/28/24 17:53	7440-48-4	
Lithium	**0.045**	mg/L	0.030	0.0016	1	03/27/24 13:16	03/29/24 16:12	7439-93-2	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E-2011 Pace Analytical Services - Peachtree Corners, GA								
Orthophosphate as P	ND	mg/L	0.020	0.0091	1		03/26/24 11:25		H1
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 16:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 16:15		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		04/02/24 16:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**286**	mg/L	50.0	50.0	1		03/29/24 13:05		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		03/30/24 04:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		03/27/24 18:50	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		03/27/24 18:50	16984-48-8	
Sulfate	**154**	mg/L	3.0	1.5	3		03/28/24 09:18	14808-79-8	
5310B TOC	Analytical Method: SM 5310B-2014 Pace Analytical Services - Asheville								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		04/03/24 19:07	7440-44-0	

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ANALYTICAL RESULTS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

Sample: MCD-AP234-HRSC24-09-28.5 **Lab ID: 92721029002** Collected: 03/24/24 11:30 Received: 03/25/24 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.4**	mg/L	1.0	0.12	1	03/28/24 18:16	04/01/24 17:09	7440-70-2	
Iron	**39.1**	mg/L	0.040	0.025	1	03/28/24 18:16	04/01/24 17:09	7439-89-6	
Magnesium	**5.0**	mg/L	0.050	0.012	1	03/28/24 18:16	04/01/24 17:09	7439-95-4	
Manganese	**2.9**	mg/L	0.040	0.011	1	03/28/24 18:16	04/01/24 17:09	7439-96-5	
Potassium	**4.6**	mg/L	0.50	0.15	1	03/28/24 18:16	04/01/24 17:09	7440-09-7	
Sodium	**3.1**	mg/L	1.0	0.58	1	03/28/24 18:16	04/01/24 17:09	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	03/27/24 13:16	03/28/24 18:04	7440-38-2	
Beryllium	**0.022**	mg/L	0.00050	0.000094	1	03/27/24 13:16	03/28/24 18:04	7440-41-7	
Boron	**0.22**	mg/L	0.040	0.012	1	03/27/24 13:16	03/28/24 18:04	7440-42-8	
Cobalt	**0.26**	mg/L	0.0050	0.00032	1	03/27/24 13:16	03/28/24 18:04	7440-48-4	
Lithium	**0.36**	mg/L	0.030	0.0016	1	03/27/24 13:16	03/28/24 18:04	7439-93-2	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E-2011 Pace Analytical Services - Peachtree Corners, GA								
Orthophosphate as P	ND	mg/L	0.020	0.0091	1		03/26/24 11:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 16:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 16:19		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		04/02/24 16:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**383**	mg/L	25.0	25.0	1		03/29/24 13:05		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		03/30/24 04:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		03/27/24 19:06	16887-00-6	
Fluoride	**0.77**	mg/L	0.10	0.050	1		03/27/24 19:06	16984-48-8	
Sulfate	**178**	mg/L	5.0	2.5	5		03/28/24 09:33	14808-79-8	
5310B TOC	Analytical Method: SM 5310B-2014 Pace Analytical Services - Asheville								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		04/03/24 19:26	7440-44-0	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 842684
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4352280 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	04/01/24 16:28	
Iron	mg/L	ND	0.040	0.025	04/01/24 16:28	
Magnesium	mg/L	ND	0.050	0.012	04/01/24 16:28	
Manganese	mg/L	ND	0.040	0.011	04/01/24 16:28	
Potassium	mg/L	ND	0.50	0.15	04/01/24 16:28	
Sodium	mg/L	ND	1.0	0.58	04/01/24 16:28	

LABORATORY CONTROL SAMPLE: 4352281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Iron	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	100	80-120	
Manganese	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	0.87	87	80-120	
Sodium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4352282 4352283

Parameter	Units	92721713001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1980 ug/L	1	1	2.9	2.9	94	91	75-125	1	20	
Iron	mg/L	98.6 ug/L	1	1	1.1	1.1	99	98	75-125	1	20	
Magnesium	mg/L	1530 ug/L	1	1	2.5	2.5	98	98	75-125	0	20	
Manganese	mg/L	ND	1	1	0.98	0.98	95	95	75-125	0	20	
Potassium	mg/L	989 ug/L	1	1	2.1	2.1	109	111	75-125	1	20	
Sodium	mg/L	5090 ug/L	1	1	6.1	6.2	102	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 842176
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4349540 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	03/28/24 17:20	
Beryllium	mg/L	ND	0.00050	0.000094	03/28/24 17:20	
Boron	mg/L	ND	0.040	0.012	03/28/24 17:20	
Cobalt	mg/L	ND	0.0050	0.00032	03/28/24 17:20	
Lithium	mg/L	ND	0.030	0.0016	03/28/24 17:20	

LABORATORY CONTROL SAMPLE: 4349541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4349542 4349543

Parameter	Units	92720846001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Boron	mg/L	53.0 ug/L	1	1	1.0	1.0	95	95	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.10	102	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 841788
QC Batch Method: SM 4500-P E-2011
Analysis Method: SM 4500-P E-2011
Analysis Description: SM4500P-E Phosphorus, Ortho
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4347578 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.020	0.0091	03/26/24 11:13	

LABORATORY CONTROL SAMPLE: 4347579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	0.5	0.55	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4347726 4347727

Parameter	Units	92721067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	0.5	0.5	0.56	0.55	111	110	80-120	1	10	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 843547
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4356303 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/02/24 14:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/02/24 14:00	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/02/24 14:00	

LABORATORY CONTROL SAMPLE: 4356304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

LABORATORY CONTROL SAMPLE: 4356305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4356306 4356307

Parameter	Units	92721018001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	45.7	45.0	91	90	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4356308 4356309

Parameter	Units	92721018002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.0	53.0	105	105	80-120	0	25	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 842600
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4351836 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/29/24 13:04	

LABORATORY CONTROL SAMPLE: 4351837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	90-110	

SAMPLE DUPLICATE: 4351838

Parameter	Units	92720833002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	343	1	25	

SAMPLE DUPLICATE: 4351839

Parameter	Units	92721035001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	47.0	45.0	4	25	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 843051
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4353930 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	03/30/24 04:31	

LABORATORY CONTROL SAMPLE: 4353931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4353932 4353933

Parameter	Units	92721029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.44	94	88	80-120	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4353934 4353935

Parameter	Units	92721332005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.49	94	99	80-120	5	10	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 842051
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4348915 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/27/24 15:09	
Fluoride	mg/L	ND	0.10	0.050	03/27/24 15:09	
Sulfate	mg/L	ND	1.0	0.50	03/27/24 15:09	

LABORATORY CONTROL SAMPLE: 4348916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.2	94	90-110	
Fluoride	mg/L	2.5	2.3	90	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4348917 4348918

Parameter	Units	92721087002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	31.6	50	50	78.0	79.0	93	95	90-110	1	10	
Fluoride	mg/L	0.66	2.5	2.5	3.3	3.4	104	108	90-110	3	10	
Sulfate	mg/L	143	50	50	189	191	92	95	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4348919 4348920

Parameter	Units	92721130002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.2	50	50	55.2	55.7	98	99	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.2	2.3	87	93	90-110	6	10	M1
Sulfate	mg/L	ND	50	50	49.3	49.6	98	99	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

QC Batch: 844093
QC Batch Method: SM 5310B-2014
Analysis Method: SM 5310B-2014
Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721029001, 92721029002

METHOD BLANK: 4359397 Matrix: Water
Associated Lab Samples: 92721029001, 92721029002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	04/03/24 18:09	

LABORATORY CONTROL SAMPLE: 4359398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4359399 4359400

Parameter	Units	92721320001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.5	25	25	30.0	30.4	98	100	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4359401 4359402

Parameter	Units	92721320002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.5	25	25	29.3	29.6	99	100	90-110	1	10	

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QUALIFIERS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92721029001	**MCD-AP234-HRSC24-08-18.5**	EPA 3010A	842684	EPA 6010D	842723
92721029002	**MCD-AP234-HRSC24-09-28.5**	EPA 3010A	842684	EPA 6010D	842723
92721029001	**MCD-AP234-HRSC24-08-18.5**	EPA 3005A	842176	EPA 6020B	842276
92721029002	**MCD-AP234-HRSC24-09-28.5**	EPA 3005A	842176	EPA 6020B	842276
92721029001	**MCD-AP234-HRSC24-08-18.5**	SM 4500-P E-2011	841788		
92721029002	**MCD-AP234-HRSC24-09-28.5**	SM 4500-P E-2011	841788		
92721029001	**MCD-AP234-HRSC24-08-18.5**	SM 2320B-2011	843547		
92721029002	**MCD-AP234-HRSC24-09-28.5**	SM 2320B-2011	843547		
92721029001	**MCD-AP234-HRSC24-08-18.5**	SM 2540C-2015	842600		
92721029002	**MCD-AP234-HRSC24-09-28.5**	SM 2540C-2015	842600		
92721029001	**MCD-AP234-HRSC24-08-18.5**	SM 4500-S2D-2011	843051		
92721029002	**MCD-AP234-HRSC24-09-28.5**	SM 4500-S2D-2011	843051		
92721029001	**MCD-AP234-HRSC24-08-18.5**	EPA 300.0 Rev 2.1 1993	842051		
92721029002	**MCD-AP234-HRSC24-09-28.5**	EPA 300.0 Rev 2.1 1993	842051		
92721029001	**MCD-AP234-HRSC24-08-18.5**	SM 5310B-2014	844093		
92721029002	**MCD-AP234-HRSC24-09-28.5**	SM 5310B-2014	844093		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO# : 92721029

92721029

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 3/25/24

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☑ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92721029

Project #

PM: BV Due Date: 04/08/24

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		3				1	1												2									
2		4	1			1	1												2									
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92721029

Scan QR Code for instructions

Company Name:	Georgia Power- McDonough	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	(470)620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	MCD-AP-2, 3/4 Boring Locations	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0004
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [X] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	2540C Total Dissolved Solids	300.0- SO4, Cl, F	4500S2D Sulfide Water	5310B TOC	App III 6010/6020	Iron, Ferrous	SM4500P-E, Phosphate, Ortho	Sample Comment
Specify Container Size **										3	2	3	4	6	3	3	3	
Identify Container Preservative Type***										1	1	1	5rb	11	2	1	1	
Analysis Requested																		
AP234-HRSC24-08-18.5	WG	G	3/23/24	1245	—	—	6				1	1	1	2	1		1	UU
AP234-HRSC24-09-28.5	WG	G	3/24/24	1130	—	—	9			1	1	1	1	2	1		1	UU2

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 50mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16474
Prelog / Bottle Ord. ID: EZ 3087449

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Appendix III: Be, Co, Li, As, Mn, Mg, Fe, Se, Na, K, S2-, Alkalinity (total/carbonate/bicarbonate), PO4, Total Organic Carbon.
* Appendix III: B, Ca

Collected By: (Printed Name) Dana Bloomfield
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
WSP	3/25/24 0830			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
		Courier Now		[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
			3/25/24 0930	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 6 of 7

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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Huntersville, NC 28078
(704)875-9092

April 04, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92721018001	**MCD-AP234-HRSC24-10-22.2**	Water	03/22/24 13:15	03/23/24 09:20
92721018002	**MCD-AP234-FB-1**	Water	03/23/24 08:00	03/23/24 09:20

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SAMPLE ANALYTE COUNT

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92721018001	**MCD-AP234-HRSC24-10-22.2**	EPA 6010D	DRB	6
		EPA 6020B	MT1	5
		SM 4500-P E-2011	TLB1	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 3500-Fe B-2011	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		SM 5310B-2014	MJP	1
92721018002	**MCD-AP234-FB-1**	EPA 6010D	DRB	6
		EPA 6020B	MT1	5
		SM 4500-P E-2011	TLB1	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 3500-Fe B-2011	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		SM 5310B-2014	MJP	1

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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ANALYTICAL RESULTS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Sample: MCD-AP234-HRSC24-10-22.2 **Lab ID: 92721018001** Collected: 03/22/24 13:15 Received: 03/23/24 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**45.0**	mg/L	1.0	0.12	1	03/28/24 18:16	04/01/24 16:41	7440-70-2	
Iron	**1.1**	mg/L	0.040	0.025	1	03/28/24 18:16	04/01/24 16:41	7439-89-6	
Magnesium	**8.6**	mg/L	0.050	0.012	1	03/28/24 18:16	04/01/24 16:41	7439-95-4	
Manganese	**5.1**	mg/L	0.040	0.011	1	03/28/24 18:16	04/01/24 16:41	7439-96-5	
Potassium	**7.3**	mg/L	0.50	0.15	1	03/28/24 18:16	04/01/24 16:41	7440-09-7	
Sodium	**22.2**	mg/L	1.0	0.58	1	03/28/24 18:16	04/01/24 16:41	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	03/27/24 13:16	03/28/24 17:42	7440-38-2	
Beryllium	**0.0057**	mg/L	0.00050	0.000094	1	03/27/24 13:16	03/28/24 17:42	7440-41-7	
Boron	**0.56**	mg/L	0.040	0.012	1	03/27/24 13:16	03/28/24 17:42	7440-42-8	
Cobalt	**0.15**	mg/L	0.0050	0.00032	1	03/27/24 13:16	03/28/24 17:42	7440-48-4	
Lithium	**0.0095J**	mg/L	0.030	0.0016	1	03/27/24 13:16	03/28/24 17:42	7439-93-2	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E-2011 Pace Analytical Services - Peachtree Corners, GA								
Orthophosphate as P	ND	mg/L	0.020	0.0091	1		03/26/24 11:23		H1
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 14:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 14:16		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		04/02/24 14:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**378**	mg/L	25.0	25.0	1		03/29/24 13:04		
Iron, Ferrous	Analytical Method: SM 3500-Fe B-2011 Pace Analytical Services - Asheville								
Iron, Ferrous	**0.98**	mg/L	0.50	0.040	1		03/26/24 12:36		H3,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		03/26/24 04:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.8**	mg/L	1.0	0.60	1		03/26/24 17:06	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		03/26/24 17:06	16984-48-8	
Sulfate	**223**	mg/L	5.0	2.5	5		03/27/24 14:21	14808-79-8	

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ANALYTICAL RESULTS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Sample: MCD-AP234-HRSC24-10-22.2 **Lab ID: 92721018001** Collected: 03/22/24 13:15 Received: 03/23/24 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B-2014 Pace Analytical Services - Asheville								
Total Organic Carbon	**1.7**	mg/L	1.0	0.50	1		04/02/24 03:15	7440-44-0	

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ANALYTICAL RESULTS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Sample: MCD-AP234-FB-1 **Lab ID: 92721018002** Collected: 03/23/24 08:00 Received: 03/23/24 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	03/28/24 18:16	04/01/24 16:46	7440-70-2	
Iron	**0.049**	mg/L	0.040	0.025	1	03/28/24 18:16	04/01/24 16:46	7439-89-6	
Magnesium	ND	mg/L	0.050	0.012	1	03/28/24 18:16	04/01/24 16:46	7439-95-4	
Manganese	ND	mg/L	0.040	0.011	1	03/28/24 18:16	04/01/24 16:46	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	03/28/24 18:16	04/01/24 16:46	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	03/28/24 18:16	04/01/24 16:46	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	03/27/24 13:16	03/28/24 17:46	7440-38-2	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/27/24 13:16	03/28/24 17:46	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	03/27/24 13:16	03/28/24 17:46	7440-42-8	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/27/24 13:16	03/28/24 17:46	7440-48-4	
Lithium	ND	mg/L	0.030	0.0016	1	03/27/24 13:16	03/28/24 17:46	7439-93-2	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E-2011 Pace Analytical Services - Peachtree Corners, GA								
Orthophosphate as P	**0.025**	mg/L	0.020	0.0091	1		03/26/24 11:24		H1
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 14:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/02/24 14:32		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		04/02/24 14:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/29/24 13:04		
Iron, Ferrous	Analytical Method: SM 3500-Fe B-2011 Pace Analytical Services - Asheville								
Iron, Ferrous	**0.040J**	mg/L	0.50	0.040	1		03/26/24 12:38		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		03/26/24 04:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/26/24 17:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/26/24 17:20	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/26/24 17:20	14808-79-8	

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ANALYTICAL RESULTS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Sample: MCD-AP234-FB-1 **Lab ID: 92721018002** Collected: 03/23/24 08:00 Received: 03/23/24 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC	Analytical Method: SM 5310B-2014 Pace Analytical Services - Asheville								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		04/02/24 03:37	7440-44-0	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 842684
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4352280 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	04/01/24 16:28	
Iron	mg/L	ND	0.040	0.025	04/01/24 16:28	
Magnesium	mg/L	ND	0.050	0.012	04/01/24 16:28	
Manganese	mg/L	ND	0.040	0.011	04/01/24 16:28	
Potassium	mg/L	ND	0.50	0.15	04/01/24 16:28	
Sodium	mg/L	ND	1.0	0.58	04/01/24 16:28	

LABORATORY CONTROL SAMPLE: 4352281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Iron	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	100	80-120	
Manganese	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	0.87	87	80-120	
Sodium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4352282 4352283

Parameter	Units	92721713001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1980 ug/L	1	1	2.9	2.9	94	91	75-125	1	20	
Iron	mg/L	98.6 ug/L	1	1	1.1	1.1	99	98	75-125	1	20	
Magnesium	mg/L	1530 ug/L	1	1	2.5	2.5	98	98	75-125	0	20	
Manganese	mg/L	ND	1	1	0.98	0.98	95	95	75-125	0	20	
Potassium	mg/L	989 ug/L	1	1	2.1	2.1	109	111	75-125	1	20	
Sodium	mg/L	5090 ug/L	1	1	6.1	6.2	102	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 842176
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4349540 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	03/28/24 17:20	
Beryllium	mg/L	ND	0.00050	0.000094	03/28/24 17:20	
Boron	mg/L	ND	0.040	0.012	03/28/24 17:20	
Cobalt	mg/L	ND	0.0050	0.00032	03/28/24 17:20	
Lithium	mg/L	ND	0.030	0.0016	03/28/24 17:20	

LABORATORY CONTROL SAMPLE: 4349541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4349542 4349543

Parameter	Units	92720846001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Boron	mg/L	53.0 ug/L	1	1	1.0	1.0	95	95	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.10	102	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 841788
QC Batch Method: SM 4500-P E-2011
Analysis Method: SM 4500-P E-2011
Analysis Description: SM4500P-E Phosphorus, Ortho
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4347578 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.020	0.0091	03/26/24 11:13	

LABORATORY CONTROL SAMPLE: 4347579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	0.5	0.55	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4347726 4347727

Parameter	Units	92721067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	0.5	0.5	0.56	0.55	111	110	80-120	1	10	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 843547
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4356303 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/02/24 14:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/02/24 14:00	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/02/24 14:00	

LABORATORY CONTROL SAMPLE: 4356304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

LABORATORY CONTROL SAMPLE: 4356305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4356306 4356307

Parameter	Units	92721018001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	45.7	45.0	91	90	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4356308 4356309

Parameter	Units	92721018002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.0	53.0	105	105	80-120	0	25	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 842600
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4351836 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/29/24 13:04	

LABORATORY CONTROL SAMPLE: 4351837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	90-110	

SAMPLE DUPLICATE: 4351838

Parameter	Units	92720833002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	343	1	25	

SAMPLE DUPLICATE: 4351839

Parameter	Units	92721035001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	47.0	45.0	4	25	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 841748
QC Batch Method: SM 3500-Fe B-2011
Analysis Method: SM 3500-Fe B-2011
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4347343 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	0.040	03/26/24 12:33	N2

LABORATORY CONTROL SAMPLE: 4347344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	103	90-110	N2

SAMPLE DUPLICATE: 4347345

Parameter	Units	92721018001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.98	0.98	0	10	H3,N2

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 841695
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4347213 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	03/26/24 04:33	

LABORATORY CONTROL SAMPLE: 4347214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4347215 4347216

Parameter	Units	92720812015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	105	108	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4347217 4347218

Parameter	Units	92721018002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.50	100	101	80-120	1	10	

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QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 841746
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4347334 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/26/24 15:07	
Fluoride	mg/L	ND	0.10	0.050	03/26/24 15:07	
Sulfate	mg/L	ND	1.0	0.50	03/26/24 15:07	

LABORATORY CONTROL SAMPLE: 4347335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4347336 4347337

Parameter	Units	92720921009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.2	50	50	61.4	63.1	86	90	90-110	3	10	M1
Fluoride	mg/L	0.13	2.5	2.5	2.1	2.2	81	84	90-110	4	10	M1
Sulfate	mg/L	8.1	50	50	51.6	53.3	87	90	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4347338 4347339

Parameter	Units	92720767005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.6	50	50	51.2	48.8	91	86	90-110	5	10	M1
Fluoride	mg/L	0.35	2.5	2.5	2.7	2.6	94	91	90-110	3	10	
Sulfate	mg/L	1220	50	50	1260	1240	77	38	90-110	2	10	M1

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REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

QC Batch: 843395
QC Batch Method: SM 5310B-2014
Analysis Method: SM 5310B-2014
Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92721018001, 92721018002

METHOD BLANK: 4355479 Matrix: Water
Associated Lab Samples: 92721018001, 92721018002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.50	04/01/24 18:39	

LABORATORY CONTROL SAMPLE: 4355480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4355481 4355482

Parameter	Units	92721332001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.9	25	25	30.4	30.8	98	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4355483 4355484

Parameter	Units	92721332002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	9.5	25	25	34.4	34.0	100	98	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-AP-2, 3/4 Boring Locations
Pace Project No.: 92721018

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92721018001	**MCD-AP234-HRSC24-10-22.2**	EPA 3010A	842684	EPA 6010D	842723
92721018002	**MCD-AP234-FB-1**	EPA 3010A	842684	EPA 6010D	842723
92721018001	**MCD-AP234-HRSC24-10-22.2**	EPA 3005A	842176	EPA 6020B	842276
92721018002	**MCD-AP234-FB-1**	EPA 3005A	842176	EPA 6020B	842276
92721018001	**MCD-AP234-HRSC24-10-22.2**	SM 4500-P E-2011	841788		
92721018002	**MCD-AP234-FB-1**	SM 4500-P E-2011	841788		
92721018001	**MCD-AP234-HRSC24-10-22.2**	SM 2320B-2011	843547		
92721018002	**MCD-AP234-FB-1**	SM 2320B-2011	843547		
92721018001	**MCD-AP234-HRSC24-10-22.2**	SM 2540C-2015	842600		
92721018002	**MCD-AP234-FB-1**	SM 2540C-2015	842600		
92721018001	**MCD-AP234-HRSC24-10-22.2**	SM 3500-Fe B-2011	841748		
92721018002	**MCD-AP234-FB-1**	SM 3500-Fe B-2011	841748		
92721018001	**MCD-AP234-HRSC24-10-22.2**	SM 4500-S2D-2011	841695		
92721018002	**MCD-AP234-FB-1**	SM 4500-S2D-2011	841695		
92721018001	**MCD-AP234-HRSC24-10-22.2**	EPA 300.0 Rev 2.1 1993	841746		
92721018002	**MCD-AP234-FB-1**	EPA 300.0 Rev 2.1 1993	841746		
92721018001	**MCD-AP234-HRSC24-10-22.2**	SM 5310B-2014	843395		
92721018002	**MCD-AP234-FB-1**	SM 5310B-2014	843395		

This report shall not be reproduced, except in full,
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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO# : 92721018

92721018

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: SG 3/23/24

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.4 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.5

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92721018

Project #

PM: BV Due Date: 04/08/24

CLIENT: 92-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		4	1			1	1												2									
2		4	1			1	1												2									
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92721018

Scan QR Code for instructions

Company Name:	Georgia Power- McDonough	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	(470)620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	MCD-AP-2, 3/4 Boring Locations	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0004
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [X] Yes [ ] No

Analysis: AK

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	2540C Total Dissolved Solids	300.0- SO4, Cl, F	4500S2D Sulfide Water	5310B TOC	App III 6010/6020	Iron, Ferrous	SM4500P-E, Phosphate, Ortho	Sample Comment
AP234-HRSC24-10-22.2	WG	G	3-22-24	13:15	—	—	9	—		1	1	1	1	2	1	1	1	W1
MCD-AP234-FB-1	WQ	G	3-23-24	0800	—	—	9	—		1	1	1	1	2	1	1	1	W2

Specify Container Size **: 3 2 3 4 6 3 3 3

Identify Container Preservative Type***: 1 1 1 5&6 11 2 1 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml. vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16474

Prelog / Bottle Ord. ID: EZ 3087449

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Appendix III, Be, Co, Li, As, Mn, Mg, Fe, Fe2+, Na, K, S2-, Alkalinity (total/carbonate/bicarbonate), PO4, Total Organic Carbon.

Collected By: (Printed Name) THOMAS M KELLER

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
WSP	3-23-24 / 3:40	Courier Now	3-23-24 8:40	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
		PACE	3/23/24 09:20	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 7

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

wsp.com

APPENDIX G

Batch and Column Treatability Studies

June 14, 2024

Todd Rees and Nicholas McMillan
WSP

TERRA SYSTEMS FINAL REPORT FOR WSP FOR COAL ASH RESIDUALS BATCH AND COLUMN TREATABILITY STUDIES FOR GEORGIA POWER PLANT MCDONOUGH, GA VERSION 2

1.0 INTRODUCTION

This bench-scale treatability evaluated neutralization/precipitation with three reagents chosen by WSP to treat arsenic, beryllium, cobalt, and lithium. The Plant McDonough groundwater protection standards (GWPS) are:

- arsenic 0.010 mg/L
- beryllium 0.004 mg/L
- cobalt 0.024 mg/L[1]
- lithium 0.040 mg/L

2.0 BENCH-SCALE STUDY SCOPE FOR ONE GROUNDWATER

The following phases were conducted for the treatability study:

2.1 Bench-scale Groundwater and Soil Collection

Groundwater samples were collected from two wells; Plant McDonough AP-1 DGWC-69 and AP-2, 3/4 DGWC-48. Soil samples were collected from soil borings adjacent to each monitoring well. The volumes of groundwater and soil collected for the initial characterization, titration, and columns are shown in Table 1. For the DGWC-48 treatability studies, there was a total of 54.6 kg of groundwater and 52.4 kg of soil; this includes the containers. For the DGWC-69 treatability studies, there was a total of 10.7 kg of groundwater and 21.5 kg of soil. The samples were delivered to Terra Systems (TS) under chain-of-custodies (Figures 1-3). The soil samples were sieved to remove rocks and debris larger than 0.475 cm and then mixed with an electric drill and auger. After removing rocks and debris, there was 15.8 kg of the DGWC-69 soil with 5.0 kg of rock (24.0%) and 38.3 kg of the DGWC-48 soil with 13.1 kg rock (25.5%). The geochemistry of the site is thought to be aerobic. The soil sieving and all tests were conducted on the bench with exposure to the atmosphere.

Tables 2 and 3 have the estimated volumes of soil and groundwater required for the initial characterization, titration, and columns. The initial characterization required 1.1 L of DGWC-48 groundwater. The titrations tests with the DGWC-48 groundwater and soil plus groundwater and the three reagents required 0.5 L groundwater and 0.3 kg of soil. For the DGWC-48 column

[1] When the treatability study began, the GWPS for cobalt was 0.0322 mg/L. As of February 2024, the GWPS has been updated to 0.024 mg/L due to a truncated background dataset.

studies, assuming 36 inch long by 3-inch diameter columns with soils having a density of 1.67 g/cm^3 and 30% porosity operated at 0.27 ft/day for 42 days, each column required about 7.0 kg of soil and 4.8 L groundwater. As seen in Table 2, with a 25% contingency, the DGWC-48 groundwater requirements are estimated to be 26 L (7 gallons) and the soil requirements are estimated to be 28 kg (62 pounds or equivalent to about 4.4 gallons of soil assuming a density of 1.67 g/cm^3).

The initial characterization required 1.1 L of DGWC-69 groundwater. The titrations tests with the DGWC-69 groundwater and soil plus groundwater and the two reagents required 0.4 L groundwater and 0.2 kg of soil. For the DGWC-69 batch studies, assuming 1,000 mL reactors with 50% groundwater by volume, each batch reactor required about 0.9 kg of soil and 0.5 L groundwater. As seen in Table 3, with a 25% contingency, the DGWC-69 groundwater requirements are estimated to be 7.5 L (2 gallons) and the soil requirements are estimated to be 10.5 kg (23 pounds or equivalent to about 1.5 gallons of soil assuming a density of 1.8 g/cm^3).

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Figure 1. Chain-of-Custody Form For MCD-DGWC-48 Groundwater

No. __ of _

TERRA SYSTEMS, INC. — **Chain of Custody**

130 Hickman Road, Suite 1, Claymont, DE 19703 phone 302-798-9553 fax 302-798-9554

Client: WSP USA, Inc. | Project Name: McDonough PDI

Project Description: McDonough Pre-Design Investigation | Project Manager/Contact: Dawn Prell | Lot:

Location: Plant McDonough-Atkinson | Phone:

Sampler: Mark Mann

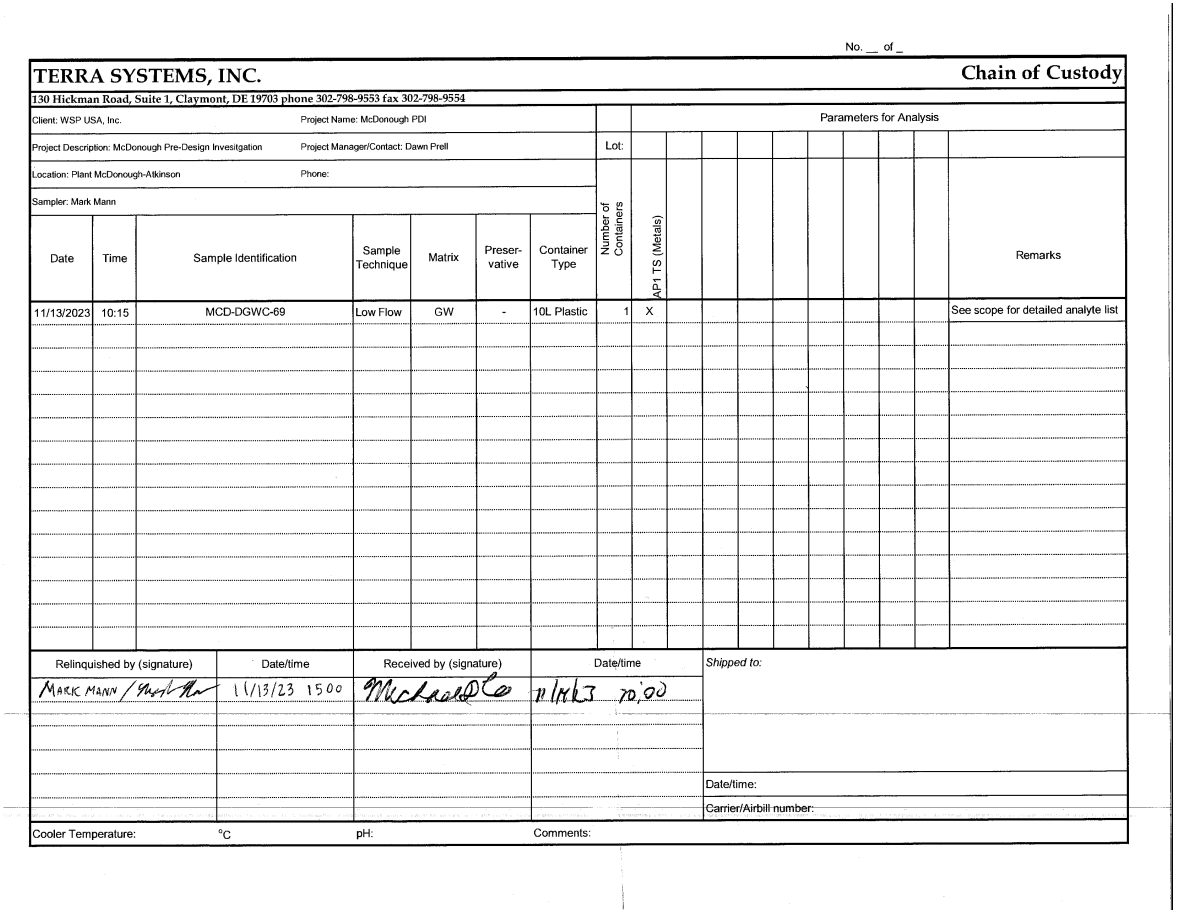
Parameters for Analysis

Date	Time	Sample Identification	Sample Technique	Matrix	Preser-vative	Container Type	Number of Containers	AP1 TS (Metals)									Remarks
11/14/2023	9:57	MCD-DGWC-48	Low Flow	GW	-	Plastic	3	X									See scope for detailed analyte list

Relinquished by (signature)	Date/time	Received by (signature)	Date/time	*Shipped to:*
MARK MANN	11/14/23 1530	[signature]	11/15/23 10:30	
				Date/time:
				Carrier/Airbill number:

Cooler Temperature: °C | pH: | Comments:

Figure 2. Chain-of-Custody Form For MCD-DGWC-69 Groundwater



No. __ of _

TERRA SYSTEMS, INC. — **Chain of Custody**

130 Hickman Road, Suite 1, Claymont, DE 19703 phone 302-798-9553 fax 302-798-9554

Client: WSP USA, Inc. | Project Name: McDonough PDI

Project Description: McDonough Pre-Design Invesitgation | Project Manager/Contact: Dawn Prell

Location: Plant McDonough-Atkinson | Phone:

Sampler: Mark Mann

Lot:

Parameters for Analysis

Date	Time	Sample Identification	Sample Technique	Matrix	Preser-vative	Container Type	Number of Containers	API TS (Metals)	Remarks
11/13/2023	10:15	MCD-DGWC-69	Low Flow	GW	-	10L Plastic	1	X	See scope for detailed analyte list

Relinquished by (signature)	Date/time	Received by (signature)	Date/time
Mark Mann	11/13/23 1500		11/14/23 10:00

Shipped to:

Date/time:

Carrier/Airbill number:

Cooler Temperature: °C | pH: | Comments:

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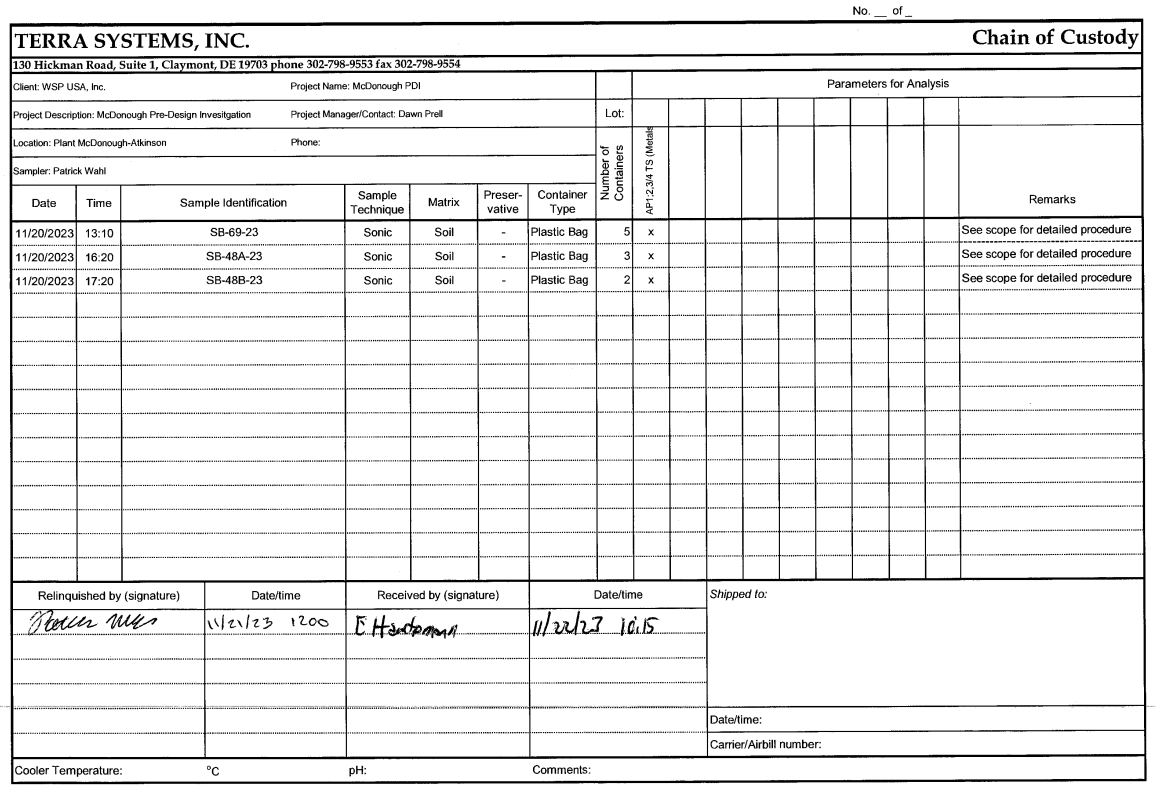
Figure 3. Chain-of-Custody Form for SB-DGWC-69 and SB-DGWC-48A and SB-DGWC-48B Soils



No. __ of _

TERRA SYSTEMS, INC. — **Chain of Custody**

130 Hickman Road, Suite 1, Claymont, DE 19703 phone 302-798-9553 fax 302-798-9554

Client: WSP USA, Inc. | Project Name: McDonough PDI

Project Description: McDonough Pre-Design Invesitgation | Project Manager/Contact: Dawn Prell

Location: Plant McDonough-Atkinson | Phone:

Sampler: Patrick Wahl

Lot:

Parameters for Analysis

Date	Time	Sample Identification	Sample Technique	Matrix	Preser-vative	Container Type	Number of Containers	AP1,2,3/4 TS (Metals)	Remarks
11/20/2023	13:10	SB-69-23	Sonic	Soil	-	Plastic Bag	5	x	See scope for detailed procedure
11/20/2023	16:20	SB-48A-23	Sonic	Soil	-	Plastic Bag	3	x	See scope for detailed procedure
11/20/2023	17:20	SB-48B-23	Sonic	Soil	-	Plastic Bag	2	x	See scope for detailed procedure

Relinquished by (signature)	Date/time	Received by (signature)	Date/time
[signature]	11/21/23 1200	E Hardmann	11/22/23 10:15

Shipped to:

Date/time:

Carrier/Airbill number:

Cooler Temperature: °C pH: Comments:

Table 1. Volumes of Groundwater and Soil

Groundwater Sample	Volume (kg)	Date Received	Soil Sample	Volume (kg)	Date Received
MCD-DGWC-69	10.7	11/14/23	SB-48B 19.6-22’	13.2	11/22/23
MCD-DGWC-48	54.6	11/15/23	SB-48B 22-24’	5.9	11/22/23
			SB-48A 19.6-22’	3.0	11/22/23
			SB-48A 19.6-22	14.5	11/22/23
			SB-48A 22-24’	15.1	11/22/23
			SB-69 11.3-13.3’	3.9	11/22/23
			SB-69 13.3-15.3’	4.5	11/22/23
			SB-69 15.3-17.3’	4.4	11/22/23
			SB-69 17.3-19.3’	5.1	11/22/23
			SB-69 19.3-21.3	3.6	11/22/23

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Table 2. Volumes of Groundwater and Soil Required for DGWC-48 Tests

Initial Characterization	GW Volume	Preservative	Bottle	**Method**
	L			
GW Dissolved As, Ba, Be, B, Ca, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, Tl	0.25	Nitric Acid	Plastic 250 mL	ICP/MS 6020B
Sulfate, Chloride, and Fluoride	0.05	None	Plastic Vial 50 mL	EPA 300.0 R2.1
Total Dissolved Solids and pH	0.5	None	Plastic 250 mL	SM 2540C
Field Parameters	0.05			
Total	1.0625			
Initial Characterization	Soil Volume			
	kg			
Soil As, Ba, Be, B, Ca, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, Tl + Moisture	0.1	None	Plastic 250 mL	ICP/MS 6020B

DGWC-48 Dosage Tests	GW Volume	Soil Volume
	L	kg
Groundwater KHCO3	0.1	
Groundwater + Soil KHCO3	0.072	0.086
Groundwater $FeSO_4$	0.1	
Groundwater + Soil $FeSO_4$	0.072	0.086
Groundwater + ADA Carbon	0.1	
Groundwater + ADA Carbon	0.072	0.086
Total	0.516	0.258

Column Width	in	3
Column Length	in	36
Groundwater Flowrate	ft/day	0.27
Column Volume	cm^3	4,168
Soil Quantity Per Column 1.67 g/cm^3	g	6,960
Pore Volume (30%) Porosity	mL	1,250
Retention Times	days	11.1
Flow per Day	mL	113
Flow per minute	mL/minute	0.078
Groundwater per Column for 42 days	mL	4,746

For DGWC-48 Batch and All Column Tests	GW Volume	Soil Volume
	L	kg
Total with 25% Contingency	26	28.2
	Gal	Pounds
Total Volume	6.9	62

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Table 3. Volumes of Groundwater and Soil Required for DGWC-69 Initial Characterization, Titration Tests, and Columns Studies

DGWC-69 Dosage Tests	DGWC-69 GW Volume	Soil Volume
	L	kg
Groundwater Ferrous sulfate	0.1	
Groundwater + Soil Ferrous sulfate	0.072	0.086
Groundwater Ferrous sulfate + Buffer	0.1	
Groundwater + Soil Ferrous sulfate + Buffer	0.072	0.086
Total	0.344	0.172

DGWC-69 Batch	GW	Soil	Ferrous Sulfate Heptahydrate	Sodium Bicarbonate
	g	g	g	g
Control	500	900		
0.1 g/L Ferrous Sulfate without Buffer	500	900	0.05	
1.0 g/L Ferrous Sulfate without Buffer	500	900	0.5	
2.0 g/L Ferrous Sulfate without Buffer	500	900	1.0	
10 g/L Ferrous Sulfate without Buffer	500	900	5.0	
0.1 g/L Ferrous Sulfate with 0.1 g/L Sodium Bicarbonate Buffer	500	900	0.05	0.05
1.0 g/L Ferrous Sulfate with1.0 g/L Sodium Bicarbonate Buffer	500	900	0.5	0.5
0.1 g/L Ferrous Sulfate with 0.1 g/L Sodium Bicarbonate Buffer	500	900	1.0	1.0
0.1 g/L Ferrous Sulfate with 0.1 g/L Sodium Bicarbonate Buffer	500	900	5.0	5.0
Total	4500	8100		
	L	kg		
Total	7.4	10.5		
	gal	lbs		
	1.95	23		

CCR Columns	Length	in	36
Control, KHCO3, FeSO4, and ADA	Width	in	4
Porosity		%	30
Groundwater Flow Rate		ft/day	0.27
Groundwater per column	42 days	L	8.4
Soil per column		kg	9.8
Treatments	1		Control
	2		KHCO3
	3		Ferrous Sulfate Heptahydrate
	4		ADA Carbon
Metals	Primary		As, Co, Be
	Secondary		Li, Mo, Se
	App III		Bo, Ca, Cl, F, SO4, TDS
	Field		pH, SC, DO, ORP, Hach Alk

2.2 Baseline Characterization

At the beginning of the bench-scale treatability test, baseline characterization was performed to verify contaminant concentrations in the samples. Analyses were conducted by Eurofins Lancaster Laboratories Environmental (ELLE) for:

- Anions (chloride, fluoride, and sulfate) by EPA 300.0 R2.1.Dissolved metals (antimony, arsenic, barium, beryllium, boron, calcium, cadmium, cobalt, chromium, lead, lithium, mercury, molybdenum, selenium, and thallium by SW846 6010D, 6020B, 7471B, and 7470A
- Total dissolved solids (TDS) by SM 2540C, pH by SW846 9040C, and Temperature by SW846 9040C.

TS measured pH in the soil and groundwater, ORP, dissolved oxygen (DO), specific conductivity, total and bicarbonate alkalinity, total hardness, ferrous iron, and sulfide in the aqueous phase using calibrated meters and Hach protocols.

The soil samples were analyzed for antimony, arsenic, barium, beryllium, boron, calcium, cadmium, cobalt, chromium, lead, lithium, mercury, molybdenum, selenium, and thallium by SW846 6010D, SW846 7471B, and SW846 6020B and percent moisture.

Table 4 presents the results of the initial characterization of the DGWC-48 groundwater and soil and the DGWC-69 groundwater and soil. The DGWC-69 groundwater had a pH of 6.9 SU, +252 mV redox potential, 8.9 mg/L dissolved oxygen, specific conductivity of 134 µS/cm, alkalinity of 80 mg/L as $CaCO_3$, hardness of 60 mg/L as $CaCO_3$, 0.35 mg/L ferrous iron, and <0.01 mg/L sulfide; these analyses were conducted by TS using calibrated meters and probes and Hach methods for alkalinity, hardness, ferrous iron, and sulfide. ELLE found 7.37 mg/L sulfate, 5.36 mg/L chloride, 0.0265 mg/L dissolved arsenic (above the Georgia Groundwater Protection Standard or GA GWPS of 0.010 mg/L), a TDS of 93.5 mg/L and pH of 6.65 SU. Other metals were not detected or below the GA GWPS for those constituents. The DGWC-69 soil had >1,000 mg/kg calcium; 100 to 1000 mg/kg barium; 10 to 100 mg/kg cobalt, chromium, and lithium; 1 to 10 mg/kg of arsenic and lead; and <1 mg/kg of beryllium, cadmium, molybdenum, and thallium. The density of the DGWC-69 soil was 1.66 g/cm^3,the saturated soil was 1.77 g/cm^3, and there was 12.2% moisture.

The DGWC-48 groundwater had a pH of 5.6 SU, + 303 mV redox potential, 9.9 mg/L dissolved oxygen, specific conductivity of 623 µS/cm, alkalinity of 20 mg/L as $CaCO_3$, hardness of 40 mg/L as $CaCO_3$, 2.8 mg/L ferrous iron, and 0.1 mg/L sulfide. ELLE found 273 mg/L sulfate, 0.48 mg/L fluoride, 6.21 mg/L chloride, 0.00767 mg/L dissolved beryllium (above the GA GWPS of 0.004 mg/L), 0.329 mg/L dissolved cobalt (above the McDonough GWPS of 0.024 mg/L), and dissolved lithium of 0.091 mg/L (above the GA GWSP of 0.040 mg/L), a TDS of 398 mg/L and pH of 4.45 SU. The DGWC-48 soil had >1,000 mg/kg of calcium; 10 to 100 mg/kg of barium; 1 to 10 mg/kg of arsenic, cobalt, chromium, lithium, molybdenum, and lead; and <1 mg/kg of detectable beryllium and thallium. The density of the DGWC-48 soil was 1.55 g/cm^3, the saturated soil was 1.67 g/cm^3, and there was 11.3% moisture.

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Table 4. Initial Characterization Results

Sample		GA GWPS	DGWC-69 GW	DGWC-48 GW		DGWC-69 Soil	DGWC-48 Soil
pH (TS)	SU		6.9	5.6			
ORP	mV		+252	+303			
DO	mg/L		8.9	9.9			
Spec. Cond.	mS/cm		134	623			
Alk.	mg/L as CaCO3		80	20			
Hard.	mg/L as CaCO3		60	40			
Fe	mg/L		0.35	2.8			
S	mg/L		0	0.10			
Sulfate	mg/L		7.37	273			
Fluoride	mg/L		<0.45	0.48			
Chloride	mg/L		5.36	6.21			
As	mg/L	0.010	**0.0265**	0.000697	mg/kg	1.40	1.47
B	mg/L	4.0	0.0436	0.607	mg/kg	<3.23	<3.1
Ba	mg/L	2	0.0495	0.0245	mg/kg	131	47.2
Be	mg/L	0.004	<0.000119	**0.00767**	mg/kg	0.992	0.873
Ca	mg/L		9.8	65.1	mg/kg	1,260	1,560
Cd	mg/L	0.0050	<0.000151	0.00263	mg/kg	0.0785	<0.0367
Co	mg/L	0.024	0.000238	**0.329**	mg/kg	21.5	4.07
Cr	mg/L	0.10	0.000764	<0.00055	mg/kg	27.9	7.35
Hg	mg/L		<0.0000790	<0.0000790	mg/kg	<0.0217	<0.0218
Li	mg/L	0.040	<0.011	**0.091**	mg/kg	20.2	8.04
Mo	mg/L	0.1	0.00651	<0.00013	mg/kg	0.549	1.03
Pb	mg/L	0.015	<0.00012	0.000735	mg/kg	7.4	2.70
Sb	mg/L	0.006	<0.00020	<0.00020	mg/kg	<0.0755	<0.0734
Se	mg/L	0.050	<0.000278	<0.000278	mg/kg	<0.0943	<0.0917
Tl	mg/L	0.0020	<0.00013	<0.00013	mg/kg	0.361	0.161
TDS	mg/L		93.5	398	mg/kg		
pH (ELLE)	SU		6.65	4.45	SU		
Temperature	°C		21.5	20.8	°C		
Moisture	%				%	12.2	11.3

7.37 J Value. Compound detect above the method detection limit but below method calibration range.
0.00767 Compound exceeds GA or McDonough GWPS

Several reagents to be used in the tests were analyzed for dissolved metals, anions, TDS, and pH (Table 5). Solutions were prepared with 10 g/L of the reagents, filtered, and analyzed by ELLE. The first batch of ADA Carbon was prepared incorrectly so ADA sent a new sample (Fluxsorb II). The 10 g/L ADA Carbon Fluxsorb II had no detectable sulfate (<2.5 mg/L), 0.5 mg/L dissolved calcium, trace levels of dissolved arsenic, barium, cobalt, chromium, molybdenum, and lead, a TDS of 176 mg/L and pH of 7.83 SU. The 10 g/L LD Carlson potassium bicarbonate had low levels of sulfate (9.04 mg/L), 22.6 mg/L dissolved calcium, trace levels of dissolved arsenic, barium, cobalt, chromium, molybdenum, and lead, a TDS of 67,700 mg/L and pH of 8.34 SU. Three different ferrous sulfate heptahydrate suppliers were tested including JT Baker (tested twice), Verdesian, and CERES. The 10 g/L ferrous sulfate heptahydrates had elevated levels of sulfate (2,760 mg/L [JT Baker]), iron (2,210 mg/L [CERES]), 1.5 to 40 mg/L dissolved calcium, trace levels of dissolved arsenic, boron, barium, cadmium, molybdenum, lead, selenium, and thallium in some of the samples; a TDS of 6,550 mg/L and pH of 3.28 SU (JT Baker). The ferrous sulfate solutions had cobalt which exceeded the Plant McDonough GWPS of 0.024 mg/L in all four samples (0.0892 to 0.127 mg/L) and the Verdesian and CERES ferrous sulfate heptahydrate products had 0.131 to 0.531 mg/L dissolved chromium which exceeded the GA GWPS of 0.10 mg/L.

Table 5. 10 g/L Reagent Analytical Results

		GA GWPS	10 g/L ADA Carbon Fluxsorb II	10 g/L LD Carlson Potassium Bicarbonate	10 g/L JT Baker Ferrous Sulfate Heptahydrate	10 g/L JT Baker Ferrous Sulfate Heptahydrate	10 g/L Verdesian Ferrous Sulfate Heptahydrate	10 g/L CERES Ferrous Sulfate Heptahydrate
Sulfate	mg/L		<2.5	9.04	2760			
Fluoride	mg/L		<0.45	<0.90	<0.45			
Chloride	mg/L		<3.0	<6.0	<3.0			
As	mg/L	0.010	0.00086	0.00120	<0.000680	<0.000680	<0.000680	0.00229
B	mg/L	4	<0.012	<0.012	<0.012	<0.12	0.121	<0.24
Ba	mg/L	2	0.00107	0.0307	0.0343	0.00911	0.0142	0.0321
Be	mg/L	0.004	<0.000119	<0.000119	<0.000119	<0.000119	<0.000119	<0.000119
Ca	mg/L		0.473	22.6	23.6	1.48	40.0	39.5
Cd	mg/L	0.0050	<0.000151	<0.000151	<0.000151	<0.000151	0.000151	0.000162
Co	mg/L	0.024	0.000164	0.000451	**0.0955**	**0.0892**	**0.094**	**0.127**
Cr	mg/L	0.10	0.00252	0.00145	<0.000550	0.0209	**0.131**	**0.531**
Fe	mg/L							2210
Hg	mg/L		<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Li	mg/L	0.040	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.011
Mo	mg/L	0.1	0.00178	0.000184	<0.000130	0.00021	0.0349	0.0511
Pb	mg/L	0.015	0.000421	0.000227	0.000135	0.00084	0.00114	0.0121
Sb	mg/L	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se	mg/L	0.050	<0.000278	<0.000278	<0.000278	0.000721	0.000922	<0.000278
Tl	mg/L	0.0020	<0.000130	0.00131	<0.000130	<0.000130	<0.000130	0.000157
TDS	mg/L		176	67700	6550			
pH	SU		7.83	8.34	3.28			
Temperature	°C		21.8	21.2	21.8			

7.37 J Value. Compound detect above the method detection limit but below method calibration range.
0.0955 exceeds the GA or McDonough GWPS

2.3 Titration Tests

Titrations were conducted to determine the appropriate dosages of each of the three reagents for the homogenized Plant McDonough DGWC-48 groundwater and for the 60% groundwater and 40% soil slurry, as needed based on the chemistry of the treatment reagents selected for testing. Titrations with potassium bicarbonate, ferrous sulfate heptahydrate, and ADA Carbon were conducted with (1) 100 mL DGWC-48 groundwater and (2) 72 g groundwater and 76.8 g soil

(60:40 volumetric ratio of DGWC-48 groundwater to soil assuming a soil density of 1.8 g/cm^3) to determine the impacts on pH and ORP.

Titrations were conducted to determine the appropriate dosages of the ferrous sulfate for the homogenized Plant McDonough AP-1 DGWC-69 groundwater and for the 60% groundwater and 40% soil slurry, as needed based on the chemistry of the treatment reagents selected for testing. Titrations ferrous sulfate heptahydrate with and without sodium bicarbonate buffer were conducted with (1) 100 mL DGWC-69 groundwater and (2) 72 g DGWC-69 groundwater and 76.8 g soil (60:40 volumetric ratio of DGWC-69 groundwater to soil assuming a soil density of 1.8 g/cm^3) to determine the impacts on pH and ORP.

2.3.1 Titration Results for DGWC-48

Titration results for DGWC-48 are shown in Table 6. With DGWC-48 groundwater and potassium bicarbonate, the initial pH was 5.7 SU, and it took 1 g/L to raise the pH to 6.4 SU, 5.0 g/L to raise the pH to 7.3 SU, and 20 g/L to raise the pH to 7.8 SU. The ORP dropped from +282 mV to +235 mV. After two days, the pH of the 20 g/L $KHCO_3$ solution was 8.4 and the ORP was +211 mV.

With DGWC-48 soil, groundwater, and potassium bicarbonate, the initial groundwater and soil pH was 6.7 and it took 15 g/L to raise the pH to 7.2 and 50 g/L raised the pH to 7.4 with some fluctuations in the ORP. After two days, the pH of the 50 g/L $KHCO_3$ solution containing soil and groundwater was 7.9 and the ORP was +224 mV. It took more potassium bicarbonate to raise the pH of the soil and groundwater than the groundwater alone.

With DGWC-48 groundwater and JT Baker ferrous sulfate heptahydrate, the initial pH was 6.2 and 1 g/L $FeSO_4{\cdot}7H_2O$ dropped the pH to 5.6, 2.0 g/L dropped the pH to 5.2 SU, 5.0 g/L dropped the pH to 4.6 SU and 10 g/L dropped the pH to 4.0 SU. Aliquots of sodium bicarbonate were added to raise the pH of the 10 g/L ferrous sulfate heptahydrate solution. With 5.0 g/L sodium bicarbonate, the pH increased to 6.6 SU and the ORP fell from +209 to -192 mV. With 15 g/L sodium bicarbonate, the pH of the groundwater was 6.8 SU and the ORP fell to -273 mV. After two days, the pH was 7.0 SU and the ORP was +210 mV.

With DGWC-48 soil and groundwater and JT Baker ferrous sulfate heptahydrate, the initial groundwater and soil pH was 6.7 SU, 1.0 g/L $FeSO_4{\cdot}7H_2O$ took pH to 5.7 SU and 10 g/L dropped the pH to 4.5 SU and the ORP decreased from +206 to +38 mV. With the addition of 5.0 g/L sodium bicarbonate to the solution of 10 g/L $FeSO_4{\cdot}7H_2O$, the pH increased to 6.1 SU and the ORP fell to -109 mV. With 10 g/L sodium bicarbonate, the pH was 6.4 SU and the ORP was -150 mV. After two days, the pH of the soil and groundwater was 6.7 and the ORP was +48 mV. Ferrous sulfate heptahydrate alone will drop the pH to as low as 4.0-4.5. Equivalent loadings of $FeSO_4{\cdot}7H_2O$ and $NaHCO_3$ were able to maintain the pH between 6 and 7. The addition of sodium bicarbonate to the ferrous sulfate resulted in large initial drops in the ORP.

2.3.2 Titration Results for DGWC-69

Titrations were conducted with the DGWC-69 groundwater and DGWC-69 soil and groundwater using ferrous sulfate heptahydrate with and without sodium bicarbonate (Table 7).

With the DGWC-69 groundwater and ferrous sulfate heptahydrate, the initial groundwater pH was 7.1 SU and 1 g/L $FeSO_4 \cdot 7H_2O$ dropped the pH to 6.2 SU, 3.0 g/L dropped the pH to 5.7 SU, 5.0 g/L dropped the pH to 5.5 SU, and 10 g/L dropped the pH to 4.6 SU. The ORP remained positive. After one day, the pH was 5.2 SU and the ORP was +104 mV for the 10 g/L $FeSO_4 \cdot 7H_2O$ solution. With the DGWC-69 groundwater and ferrous sulfate heptahydrate and sodium bicarbonate, the initial groundwater pH was 6.7 SU and 1 g/L $FeSO_4 \cdot 7H_2O$ dropped the pH to 6.0 SU and 1 g/L $NaHCO_3$ raised the pH back to 6.4 SU, 3.0 g/L $FeSO_4 \cdot 7H_2O$ dropped the pH to 6.3 SU and 3.0 g/L $NaHCO_3$ brought the pH back to 6.8 SU. The 10.0 g/L $FeSO_4 \cdot 7H_2O$ and 10 g/L $NaHCO_3$ had a pH of 7.0.

With the 100 g DGWC-69 groundwater, 111 g soil, and ferrous sulfate heptahydrate, the initial groundwater pH was 6.2 SU and 1 g/L $FeSO_4 \cdot 7H_2O$ had no impact on the pH SU, 2.5 g/L dropped the pH to 5.4 SU, 5.0 g/L and 7.5 g/L also had a pH 5.4 SU, and 10 g/L dropped the pH to 5.0 SU. The ORP remained positive. After one day, the pH was 5.9 SU and the ORP was -119 mV for the 10 g/L $FeSO_4 \cdot 7H_2O$ solution. With 132 g DGWC-69 groundwater, 146 g soil, and ferrous sulfate heptahydrate and sodium bicarbonate, the initial groundwater pH was 7.0 SU and 1.0 g/L $FeSO_4 \cdot 7H_2O$ dropped the pH to 6.7 SU and 1 g/L $NaHCO_3$ dropped the pH back to 6.4 SU, 2.5 g/L $FeSO_4 \cdot 7H_2O$ dropped the pH to 6.3 SU and 2.5 g/L $NaHCO_3$ brought the pH back to 6.5 SU and the ORP became negative. The 4.9 g/L $FeSO_4 \cdot 7H_2O$ increased the pH to 6.6 and 7.4 g NaHCO3 dropped the pH to 6.2. With 9.8 g/L $FeSO_4 \cdot 7H_2O$ and 9.8 g/L $NaHCO_3$, the pH was 6.2.The next day, the pH was 6.7 with a -179 mV ORP.

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Table 6. DGWC-48 Titration Results

Treatment	Groundwater Potassium Bicarbonate														
GW	KHCO3	12/5/2023									12/7/2023				
g	g	0	0.01	0.1	0.25	0.5	0.75	1.0	1.5	2.0	2.0				
100	g/L	0	0.1	1.0	2.5	5.0	7.5	10	15	20	20				
pH		5.7	5.7	6.4	6.7	7.3	7.5	7.7	7.7	7.8	8.4				
ORP		+282	+286	+277	+277	+261	+258	+252	+275	+235	+211				
Treatment	GW + Soil Potassium Bicarbonate														
GW	Soil	KHCO3	12/5/2023												12/7/2023
g	g	g	0	0.074	0.148	0.37	0.555	0.7	1.11	1.48	1.85	2.22	2.96	3.7	3.70
74.2	76.8	g/L	0	1.0	2.0	5.0	7.5	10	15	20	25	30	40	50	50
pH			6.7	6.4	6.2	6.6	6.8	6.9	7.2	7.2	7.3	7.3	7.3	7.4	7.9
ORP			+221	+246	+321	+317	+310	+302	+282	+272	+258	+258	+250	+245	+224
Treatment	Groundwater Ferrous Sulfate Heptahydrate														
GW	FeSO4-7H2O	12/5/2023						NaHCO3					12/7/2023		
g	g	0	0.1	0.2	0.5	0.75	1.0	g	0.5	0.7	1.0	1.5	1.5		
100	g/L	0	1.0	2.0	5.0	7.5	10	g/L	5.0	7.0	10	15	15		
pH		6.2	5.6	5.2	4.6	4.1	4.0		6.6	6.7	6.7	6.8	7.0		
ORP		130	+31	+64	+110	+186	+209		-192	-229	-279	-273	+210		
Treatment	GW + Soil Ferrous Sulfate Heptahydrate														
GW	Soil	FeSO4-7H2O	12/5/2023					NaHCO3			12/7/2023				
g	g	g	0	0.06	0.3	0.45	0.6	g	0.3	0.6	0.60				
74.2	76.8	g/L	0	1.0	5.0	7.5	10	g/L	5.0	10.0	10				
pH			6.7	5.7	4.9	4.6	4.5		6.1	6.4	6.7				
ORP			+206	+14	0	+14	+38		-109	-150	+48				

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Table 7. DGWC-69 Titration Results

Treatment	Groundwater Ferrous Sulfate Heptahydrate												
GW	FeSO4-7H2O	12/7/2023						12/8/2023					
g	g	0	0.1	0.3	0.5	0.75	1.0	1.0					
100	g/L	0	1.0	3.0	5.0	7.5	10	10					
pH		7.1	6.2	5.7	5.5	5.3	4.6	5.2					
ORP		+165	+30	+45	+60	+78	+163	+104					
Treatment	Groundwater	Ferrous Sulfate Heptahydrate + Sodium Bicarbonate											
GW	FeSO4-7H2O	12/7/2023											12/8/2023
		FeSO4-7H2O	NaHCO3	FeSO4-7H2O	NaHCO3	FeSO4-7H2O	NaHCO3	FeSO4-7H2O	NaHCO3	FeSO4-7H2O	FeSO4-7H2O	NaHCO3	
g	g	0	0	0.1	0.1	0.3	0.3	0.5	0.5	0.75	1.00	1.0	
100	g/L	0	0.0	1.0	1.0	3.0	3.0	5.0	5.0	7.5	10.0	10.0	
pH		6.7	6.7	6.0	6.4	6.3	6.8	6.8	7.0	7.0	7.0	7.0	6.8
ORP		-19	-19	-28	-80	-94	-187	-180	-227	-259	-245	-245	-171
Treatment	GW + Soil	Ferrous Sulfate Heptahydrate											
GW	Soil	FeSO4-7H2O	12/7/2023						12/8/2023				
g	g	g	0	0.1	0.25	0.5	0.75	1.0					
100	111	g/L	0	1.0	2.5	5.0	7.5	10					
pH			6.2	6.2	5.4	5.4	5.4	5.0	5.9				
ORP			+159	+150	+91	+78	+82	+65	-119				
Treatment	GW + Soil	Ferrous Sulfate Heptahydrate + Sodium Bicarbonate											
GW	FeSO4-7H2O	12/7/2023											12/8/2023
	Soil		FeSO4-7H2O	NaHCO3	FeSO4-7H2O	NaHCO3	FeSO4-7H2O	NaHCO3	FeSO4-7H2O	NaHCO3	FeSO4-7H2O	NaHCO3	
g	g	g	0	0	0.13	0.13	0.325	0.325	0.65	0.975	1.30	1.3	
132	146	g/L	0	0.0	1.0	1.0	2.5	2.5	4.9	7.4	9.8	9.8	
pH			7.0	7.0	6.7	6.4	6.3	6.5	6.6	6.2	6.6	6.2	6.7
ORP			-19	+118	+84	+24	+2	-52	-66	-153	-151	-183	-170

2.3.3 FluxSorb II Adsorption Tests

Adsorption studies were conducted to determine the impact of three selected dosages (10, 25, and 40 g/L) of the ADA Carbon FluxSorb II reagent for the homogenized DGWC-48 groundwater on removal of metals in the groundwater. These treatments were incubated for six days. At the end of the test, samples were submitted to ELLE for dissolved metals (As, Ba, Be, Bo, Ca, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, and Tl). and analyzed for dissolved metals. TS measured the pH, DO, ORP, specific conductivity, and turbidity. The results for the adsorption tests with the DGWC-48 groundwater and FluxSorb II are shown in Table 8. The percent change from the initial DGWC-48 groundwater is shown.

The pH in the treatments with FluxSorb II as measured by ELLE ranged from 6.6 to 6.8 SU, above the 4.4 SU measured in the DGWC-48 groundwater. The TDS in the FluxSorb II treatments varied between 289 and 406 mg/L compared to 398 mg/L in the DGWC-48 groundwater. Sulfate decreased slightly with all three FluxSorb II loadings. Over the six-day incubation, chloride increased slightly in 40 g/L FluxSorb II treatment. Mercury, antimony, and thallium were not detected in the groundwater or the FluxSorb II treatments. A trace of selenium was detected in the 25 g/L FluxSorb II. Boron decreased by 82.2% at the 40 g/L loading but showed little change at the 10 and 25 g/L loadings of FluxSorb II. Lead fell to below detection limits with the 40 g/L FluxSorb II. The FluxSorb II showed increases in arsenic (10 and 25 g/L FluxSorb II), barium (10 and 25 g/L FluxSorb II), chromium (10, 25, and 40 g/L FluxSorb II), and molybdenum but remained below the GA GWPS for each metal. Decreased beryllium to below the GA GWPS of 0.004 mg/L was observed in the 10, 25, and 40 g/L FluxSorb II treatments. Calcium decreased by 5.1 to 85.5% in the 10, 25, and 40 g/L FluxSorb II treatments. Cadmium decreased by 38.4 to 90.9%. Cobalt decreased by 26.7 to 88.0% as the FluxSorb II increased but remained above the Plant McDonough GWPS of 0.024 mg/L. Lithium decreased below the GA GWSP of 0.040 mg/L at the 25 and 40 g/L FluxSorb II loadings. Of the metals exceeding the GA GWPS in the DGWC-48 groundwater, 25 and 40 g/L FluxSorb II effectively treated beryllium and lithium to below the GA GWPS but did not reach the McDonough GWPS for cobalt although cobalt was reduced by 88.0% at the 40 g/L FluxSorb II loading.

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Table 8. Adsorption Results for DGWC-48 and FluxSorb II

Sample		GA GWPS	DGWC-48 GW		DGWC-48 10 g/L FluxSorb II	DGWC-48 25 g/L FluxSorb II	DGWC-48 40 g/L FluxSorb II	% Change from IC	DGWC-48 10 g/L FluxSorb II	DGWC-48 25 g/L FluxSorb II	DGWC-48 40 g/L FluxSorb II
Day			0		6	6	6				
Sulfate	mg/L		273		252	234	272		7.7	14.3	0.4
Fluoride	mg/L		0.48		<0.45	<0.45	<0.45				
Chloride	mg/L		6.21		5.83	5.53	7.25		6.1	11.0	-16.7
As	mg/L	0.010	0.000697		0.00259	0.00138	<0.00068		-271.6	-98.0	>2.6
B	mg/L		0.607		0.614	0.595	0.108		-1.2	2.0	82.2
Ba	mg/L	2	0.0245		0.112	0.0419	0.0103		-357.1	-71.0	58.0
Be	mg/L	0.004	**0.00767**		0.000407	0.00242	<0.000119		94.7	68.4	>98.4
Ca	mg/L		65.1		61.8	51.1	9.47		5.1	21.5	85.5
Cd	mg/L	0.0050	0.00263		0.00126	0.00162	0.00024		52.1	38.4	90.9
Co	mg/L	0.024	**0.329**		**0.241**	**0.228**	**0.0396**		26.7	30.7	88.0
Cr	mg/L	0.10	<0.00055		0.00222	0.00835	0.00203		>-303.6	>-1418.2	>-269.1
Hg	mg/L		<0.0000790		<0.0000790	<0.0000790	<0.0000790				
Li	mg/L	0.040	**0.091**		**0.0846**	<0.011	<0.011		7.0	>87.9	>87.9
Mo	mg/L	0.1	<0.00013		0.00192	0.00874	0.00199		>-1376.9	>-6623.1	>-1430.8
Pb	mg/L	0.015	0.000735		0.000322	0.000368	<0.00012		56.2	49.9	>83.7
Sb	mg/L	0.006	<0.00020		<0.00020	<0.00020	<0.00020				
Se	mg/L	0.050	<0.000278		<0.000278	0.000719	<0.000278			>-158.6	
Tl	mg/L	0.0020	<0.00013		<0.00013	<0.00013	<0.00013				
TDS	mg/L		398		289	406	380		27.4	-2.0	4.5
pH	SU		4.45		6.72	6.63	6.76		-51.0	-49.0	-51.9
Temperature	°C		20.8		21.8	22.0	21.8				
0.0436	J value. Compound detected below method calibration level, but above method detection limit.										
0.00767	Compound exceeds GA or McDonough GWPS										
61.8	Compound detected in blank associated with these samples										

2.4 ADA Carbon Transport in Column Bench-Scale Study Scope

Column Objectives

- Evaluate pore volume treatment and evolution under transient flow conditions similar to field flow rate
- Evaluate influence on permeability / flow through column
- Field flow rate: 2.7 feet per day through the 1-foot-long column
- DGWC-48 soil and DGWC-48 groundwater with FluxSorb II
- Analyze field parameters on aqueous samples (pH, ORP, DO, SC, and turbidity)
- Record observations related to flow, leakage, precipitation, photograph periodically

The column study used FluxSorb II at one loading.

A column test was conducted using DGWC-48 groundwater and DGWC-48 soil to evaluate ADA Carbon FluxSorb II reagent at one dosage. ADA recommended a dosage of 0.5% FluxSorb solids by weight of groundwater. The as-received Fluxsorb II has 13.1wt% solids. This would be equivalent to 3.82 g/L FluxSorb II in the suspension. The column was prepared by installing a 3/8" plastic bushing to a small luer outlet onto both endcaps. The weight of the empty column and endcaps were recorded (467 g). The bottom endcap had a geotextile membrane layer at the bottom and was glued onto the column. The soil was weighed and then added to the column while maintaining the groundwater level (to prevent trapping air bubbles). The column was filled with soil and groundwater and periodically tapped and the soil tamped. Once the column was filled, a geotextile covering was placed over the soil and the top endcap was glued onto the column.

The 12" x 2" diameter column (640 mL total empty volume) used 976 g of soil and 110 mL of DGWC-48 with an effective porosity of 17% resulting in a pore volume was 110 mL. First 1.8 pore volumes of DGWC-48 groundwater were pumped through the column over three days at flowrates of 0.41 to 1.18 mL/min. A flowrate of about 0.57 mL/min or 1.8 pore volumes/ day or a groundwater flowrate of 1.8 ft/day was used for the column test. A solution of 38.2 g FluxSorb II in 964 mL DGWC-48 groundwater (0.52% solids) was prepared on January 22, 2024. The FluxSorb II solution was continually mixed on a magnetic stir plate. The pH, ORP, specific conductivity, and turbidity of the effluent from the column were measured periodically. The calibration curve between turbidity and the FluxSorb II is shown in Figure 4. The FluxSorb II solution was pumped through the column over four days (1/22/24 to 1/26/24) between 8:00 and 5:00 with a total of 847 mL collected in the effluent. A groundwater flush was begun on 1/26/24 and continued through 1/31/24 with a total of 625 mL or 5.7 pore volumes. A sample of the effluent was collected 1/29/24 to 1/31/24 over the last 330 mL to be analyzed for dissolved metals.

The date and time, volume, cumulative flow, pore volume, cumulative pore volume, pH, ORP, specific conductivity, mg/L FluxSorb II (calculated from turbidity), mg/L solids (FluxSorb II X 0.131), and cumulative colloidal carbon product (CCP) solids are shown in Table 9. The FluxSorb II solution had a pH of 6.5, ORP of 165 mL, specific conductivity (SC) of 664 µS/ cm, 38,128 mg/L FluxSorb II (calculated), and 4,985 mg CCP solids. After the initial groundwater flush of 1.5 pore volumes, the pH of the effluent was 5.6 SU, ORP was +196 mV, the SC was 654 µS/cm, and there was no turbidity (or FluxSorb II). There was no significant change in the

ORP, SC, or pH over the 16 pore volumes. Light turbidity was observed in the column effluent after 0.2 pore volumes of the FluxSorb II solution (Figure 5). After 5.1 pore volumes of the diluted CCP, there is up to 17,300 mg/L of FluxSorb II in the effluent or roughly 1/2 of the influent concentration. The FluxSorb II ranged between 7,692 mg/L to 17,446 mg/L through pore volume 9.5 when the injection of FluxSorb II was ended. During the flush with DGWC-48 groundwater the FluxSorb II decreased from 6,464 mg/L in the first 1.2 pore volumes to 36 mg/L at pore volume 16. An estimated 11.6 mg of CCP solids was removed during the flush. The mass balance showed an estimated 1,220 mg of CCP solids passed through the column or 24.5% of the CCP applied to the column. Based upon the turbidity measurements and flow, about 75.5% of the CCP was retained on the column.

Figure 6 shows the column over time. The front and back of the column are shown after 1.1 pore volumes during the water flush. The FluxSorb II was introduced to the bottom of the column after 1.8 pore volumes. After 2.6 pore volumes, there is a darker color through much of the column. After the water flush, the column retained much of the dark coloration. The extruded soil had more carbon on the outside of the column near the side walls than in the interior.

At the end of the test, the column was broken down and soil samples collected from the influent end and at three intervals in the exterior and interior of column to be analyzed by heating to 105 C to remove moisture and then for loss on ignition by heating at 550 C in a muffle furnace. Duplicate DGWC-48 background soil samples were tested. Two samples of the FluxSorb II carbon were evaluated for moisture content and loss on ignition.

Table 10 shows the results of the moisture content and loss on ignition tests. The two FluxSorb II samples contained 86.3% moisture (13.7% solids) and 70,400 to 70,600 mg/kg organic matter wet solids or 515,000 to 516,000 mg/kg of organic matter dry solids. The DGWC-48 soils had 9.1 to 9.7% moisture, between 15,000 and 15,800 mg/kg of organic matter in the wet soil and between 16,500 and 17,400 mg/kg of organic matter in the dry soil. The outside samples from the bottom, 1/3, 2/3, and top of the column had between 1,180 to 3,470 mg/kg organic matter more on a dry weight basis or than the background soils. The interior samples from the bottom and top of the column had organic matter contents less than the average for the background soils on a dry weight basis with only 790 mg/kg in the interior sample from 2/3 up the column. A mass balance based upon the average of all eight samples from the column suggested that 1,524 mg organic matter on a dry weight basis was retained on the column over the organic matter in the background soil. With the average of 515,000 mg/kg of organic matter on a dry weight basis in the FluxSorb II and the 0.00498 kg of FluxSorb II dry solids applied to the column, the column received 2,565 mg of organic carbon. The mass balance showed 59.4% of the organic carbon on a dry weight basis was retained on the column.

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Table 9. Preliminary ADA Carbon Column Results

0	CCP Sol	Start	End	Volume	Cum Flow	Pore Volume	Cum PV	Time	Flowrate	pH	ORP	SC	mg/L CCP	mg CCP Solids	Cum mg CCP Solids
	Soln	12:55					0			6.5	165	664	38128	4985	
1/17/2024				32.2	32.2	0.29	0.29	78	0.41						
				51.7	83.9	0.47	0.76	44	1.18						
1/18/2024				34.3	118.2	0.31	1.07	30	1.14						
				15.2	133.4	0.14	1.21	24.5	0.62						
1/22/2024				16.9	150.3	0.15	1.37	17	0.99						
				15.1	165.4	0.14	1.50	26.5	0.57	5.6	196	654	0		
	Start	12:55		29.1	194.5	0.26	1.77	51	0.57						
				36.6	231.1	0.33	2.10	65	0.56	6.7	175	734	23	0.1	0.1
			15:43	22.7	253.8	0.21	2.31	40	0.57	6.8	171	723	36	0.1	0.2
			16:45	30.6	284.4	0.28	2.59	54	0.57	6.8	171	709	71	0.3	0.5
1/23/2024		7:44	8:35	25.2	309.6	0.23	2.81	51	0.49	7.7	185	735	317	1.0	1.5
		8:43	10:29	60.3	369.9	0.55	3.36	106	0.57	7.6	175	741	1422	11.2	12.8
		10:40	11:55	42.4	412.3	0.39	3.75	75	0.57	7.1	174	717	3851	21.4	34.2
		12:00	13:16	43.4	455.7	0.39	4.14	76	0.57	7.1	175	727	12795	72.7	106.9
		13:23	15:27	71.1	526.8	0.65	4.79	124	0.57	7.1	173	736	15013	139.8	246.7
		15:35	16:45	30	556.8	0.27	5.06	70	0.43	6.6	187	735	17320	68.1	314.8
1/24/2024		7:40	10:50	108.4	665.2	0.99	6.05	190	0.57	6.7	94	735	8273	117.5	432.3
		11:08	14:34	119.1	784.3	1.08	7.13	206	0.58	6.8	207	733	10728	167.4	599.7
		14:46	16:57	75.9	860.2	0.69	7.82	131	0.58	6.8	199	736	17446	173.5	773.1
1/25/2024		7:42	10:20	66.5	926.7	0.60	8.42	158	0.42	6.5	198	768	13377	116.5	889.7
		10:36	14:02	79.2	1005.9	0.72	9.14	206	0.38	6.4	185	764	17059	177.0	1066.7
1/26/2024		7:42	8:57	35.7	1041.6	0.32	9.47	69	0.52	7.9	106	745	7692	36.0	1102.6
	Flush	9:20	13:49	123.3	1164.9	1.12	10.59	289	0.43	7.8	173	742	6464	104.4	1207.0
		13:56	16:16	80.3	1245.2	0.73	11.32	140	0.57	7.1	227	736	624	6.6	1213.6
1/29/2024		7:46	14:09	215.2	1460.4	1.96	13.28	383	0.56	7.0	123	646	123	3.5	1217.1
		14:17	16:58	90.3	1550.7	0.82	14.10	161	0.56	6.5	136	638	36	0.4	1217.5
1/30/2024		10:46	16:45	205.2	1755.9	1.87	15.96	359	0.57				35	0.9	1218.4
1/31/2024		10:37	11:37	33.6	1789.5	0.31	16.27	60	0.56	6.9	181	598	36	0.2	1218.6

Figure 4. CCP FluxSorb II versus Turbidity

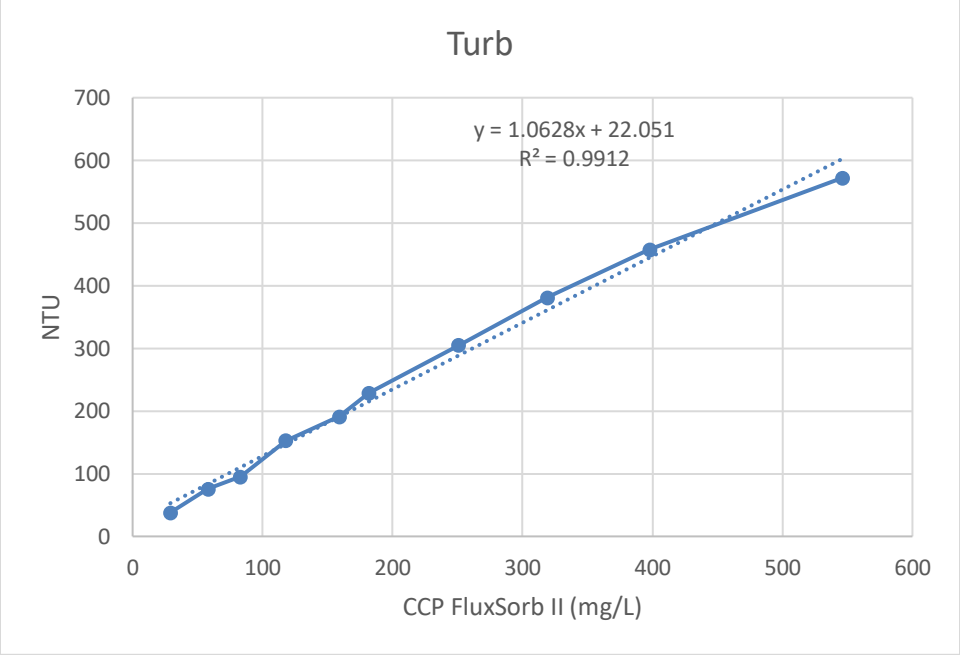


Figure 5. CCP FluxSorb II versus Pore Volume

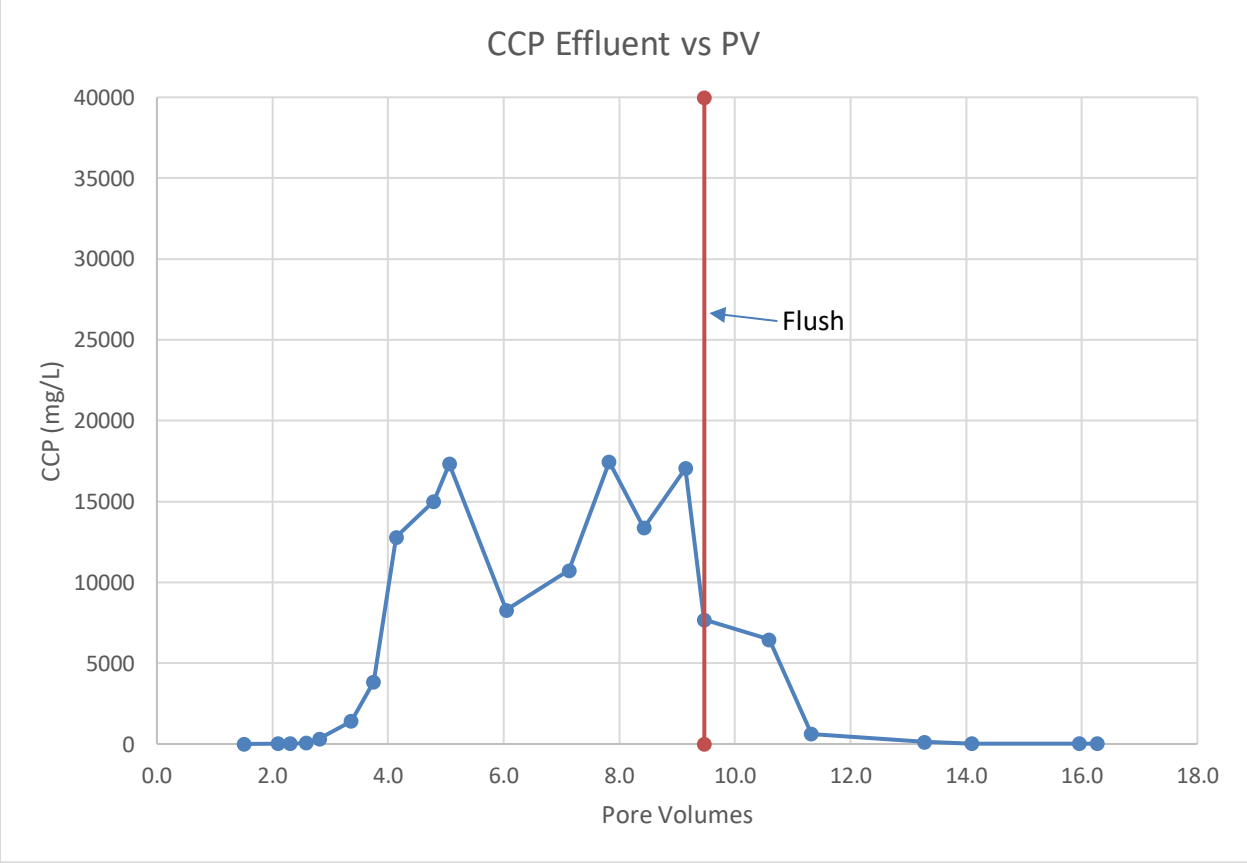
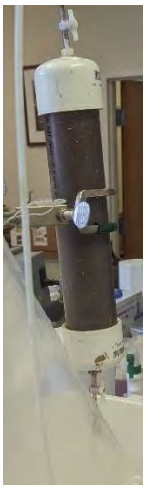


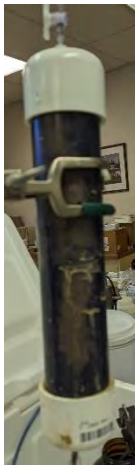
Figure 6. Column Over Time

1.1 PV Front



1.1 PV Back

2.6 PV Front



2.6 PV Back

16.3 PV Flush

Extruded Soil

Table 10. Soil Moisture and Organic Carbon

Sample		Soil Wt	Dry Soil Wt	Moisture	OC	OC	OC	Average OC	OC-Soil Avg
		g	g	%	mg	mg/kg Wet	mg/kg Dry	mg/kg Dry	
Fluxsorb II		5.2466	0.7162	86.3	369.4	70408	515778		
Fluxsorb II		5.1764	0.7098	86.3	365.3	70570	514652	515215	
MW-48 Soil		7.3433	6.6285	9.7	109.3	14884	16489		
MW-48 Soil		8.3207	7.5644	9.1	131.6	15816	17397	16943	
Bottom Outside		13.435	10.1336	24.6	204.1	15192	20141		3198
Bottom Outside		16.211	11.9511	26.3	216.6	13361	18124	19132	1181
Bottom Interior		15.216	11.2798	25.9	183.5	12060	16268		-675
1/3 Outside		15.761	11.1536	29.2	219.2	13908	19653		2710
2/3 Outside		13.669	9.7542	28.6	199.1	14566	20412		3468
2/3 Interior		23.569	17.6088	25.3	312.2	13246	17730		786
Top Outside		15.194	11.2547	25.9	205.6	13532	18268		1325
Top Interior		18.279	13.9176	23.9	227.1	12424	16317		-626
Soil Total		165.65							
Soil remaining from column		907.1							
Total		1072.7							
Average OC									1421
Total OC On Column									1524

An effluent sample from the ADA Carbon column was submitted to ELLE (see Table 11). There was little change in boron (below GA GWPS), beryllium was reduced by >98.4% to below the GA GWPS, with only modest (63.2%) improvement in Cobalt (but still remains above McDonough GWPS), and lithium fell by 76.2% to below the GA GWPS.

Table 11. DGWC-48 Effluent Metals

Sample		GA GWPS	DGWC-48 GW	DGWC-48 Column Effluent	% Change from IC
As	mg/L	0.010	0.000697	<0.00068	>2.4
B	mg/L		0.607	0.627	-3.3
Ba	mg/L	2	0.0245	0.0239	2.4
Be	mg/L	0.004	**0.00767**	<0.000119	>98.4
Ca	mg/L		65.1	56.9	12.6
Cd	mg/L	0.0050	0.00263	0.00123	53.2
Co	mg/L	0.024	**0.329**	**0.121**	63.2
Cr	mg/L	0.10	<0.00055	<0.00055	
Hg	mg/L		<0.0000790	<0.0000790	
Li	mg/L	0.040	**0.091**	0.0217	76.2
Mo	mg/L	0.1	<0.00013	0.000659	>-406.9
Pb	mg/L	0.015	0.000735	<0.00012	>83.7
Sb	mg/L	0.006	<0.00020	<0.00020	
Se	mg/L	0.050	<0.000278	<0.000278	
Tl	mg/L	0.0020	<0.00013	<0.00013	
0.00767	Compound exceeds GA or McDonough GWPS				
0.000292	J value. Compound detected below method calibration level, but above method detection limit.				

2.4.1 Conclusions

While the 40 g/L ADA FluxSorb II can take up >98.4% of Beryllium, 82% of Boron, 90.9% Cobalt, and >87.9% of lithium in the batch studies, the column studies showed little improvement in Boron and only modest improvement in Cobalt which remained above the McDonough GWPS in the effluent. Beryllium and lithium were treated to below the GA GWPS

with the ADA Carbon in the preliminary column study. The ADA Carbon was not uniformly distributed throughout the column.

2.5 DGWC-69 Batch Tests

Batch tests were prepared with 900 g of the DGWC-69 soil and 494 to 640 g DGWC-69 groundwater. Treatments included the JT Baker ferrous sulfate heptahydrate and sodium bicarbonate:

- 0.1 g/L ferrous sulfate heptahydrate
- 1.0 g/L ferrous sulfate heptahydrate
- 2.0 g/L ferrous sulfate heptahydrate
- 10 g/L ferrous sulfate heptahydrate
- 0.1 g/L ferrous sulfate heptahydrate and 0.1 g/L sodium bicarbonate
- 1.0 g/L ferrous sulfate heptahydrate and 1.0 g/L sodium bicarbonate
- 2.0 g/L ferrous sulfate heptahydrate and 2.0 g/L sodium bicarbonate
- 10 g/L ferrous sulfate heptahydrate and 10 g/L sodium bicarbonate

The pH and ORP were measured on Day 0. The pH, ORP, dissolved oxygen (DO), specific conductivity, alkalinity, hardness, ferrous iron, and sulfide were measured on Day 7 (Table 12). Metals, anions, TDS, and pH are shown in Table 13.

2.5.1 Ferrous Sulfate Heptahydrate.

The pH of the DGWC-69 groundwater ranged from 7.4 to 7.6 SU with positive ORPs. As the ferrous sulfate heptahydrate concentrations increased, the pH on Day 7 decreased to as low as 4.5 SU. The ORP became reducing on Day 7 in the higher loadings. DO was more variable possibly as oxygen infiltrated the samples during measurement in open centrifuge tubes. Specific conductivity increased with the ferrous sulfate heptahydrate loadings from 217 to 3,720 µS/cm. Alkalinity decreased as the ferrous sulfate concentrations increased and pH decreased. Ferrous iron became elevated (1,350 mg/L) at the highest ferrous sulfate loading. Only trace levels of sulfide were detected.

Sulfate increased from 8.2 mg/L in the groundwater to a maximum of 28,700 mg/L at the highest ferrous sulfate heptahydrate loading. Fluoride and chloride were unchanged. The pH measured by ELLE during the TDS measurements were consistent with the TS measurements. TDS increased to a maximum of 1,720 mg/L. The following metals exceeded the GA GWPS:

- Beryllium only in the10 g/L ferrous sulfate heptahydrate treatment
- Cobalt at the 2.0 and 10 g/L ferrous sulfate heptahydrate loadings (likely due to the cobalt in the ferrous sulfate heptahydrate). The DGWC-69 control and treatments with 0.1 g/L and 1.0 g/L ferrous sulfate heptahydrate and 0.1 g/L and 1.0 g/L ferrous sulfate heptahydrate with 0.1 and 1.0 g/L sodium bicarbonate loadings met the McDonough GWPS for cobalt.
- Molybdenum in the control and 0.1 g/L ferrous sulfate heptahydrate. The ferrous sulfate heptahydrate treated molybdenum to below the GA GPWS at the 1, 2, and 10 g/L ferrous sulfate heptahydrate loadings.

2.5.2 Ferrous Sulfate Heptahydrate and Sodium Bicarbonate.

The sodium bicarbonate additions with ferrous sulfate heptahydrate maintained the pH on Day 7 between 6.2 and 6.7 SU. The ORP was reducing on Day 7 in the 2 and 10 g/L loadings of ferrous

sulfate and sodium bicarbonate. DO ranged from 1.8 and 7.0 mg/L. Specific conductivity increased with the ferrous sulfate heptahydrate and sodium bicarbonate loadings from 532 to 8,130 µS/cm. Alkalinity increased to as high as 2,400 mg/L as $CaCO_3$ as the ferrous sulfate and sodium bicarbonate concentrations increased as pH increased. Ferrous iron became elevated (28 mg/L) at the highest ferrous sulfate loading. Only trace levels of sulfide were detected.

Sulfate increased from 8.2 mg/L in the groundwater to a maximum of 3,300 mg/L at the highest ferrous sulfate heptahydrate loading. Fluoride and chloride were mostly unchanged. The pH measured by ELLE during the TDS measurements were largely consistent with the TS measurements. TDS increased to a maximum of 3,840 mg/L. The following metals exceeded the GA or McDonough GWPS:

- Cobalt at the 1.0, 2.0, and 10 g/L ferrous sulfate heptahydrate loadings (likely due to the cobalt in the JT Baker ferrous sulfate heptahydrate)
- Molybdenum in the control and 0.1 g/L ferrous sulfate heptahydrate with 0.1 g/L sodium bicarbonate. The ferrous sulfate heptahydrate and sodium bicarbonate treated molybdenum to below the GA GPWS at the 1, 2, and 10 g/L ferrous sulfate heptahydrate and sodium bicarbonate loadings.

Lithium was detected at trace concentrations at 1.0 and 2.0 mg/L loadings of ferrous sulfate heptahydrate and sodium bicarbonate but below the GA GWPS, and there was an elevated detection limit of 0.11 mg/L, above the GA GWPS at the 10 g/L ferrous sulfate heptahydrate and sodium bicarbonate loading.

2.5.3 DGWC-69 Batch Tests Conclusions

1. Ferrous sulfate heptahydrate with or without sodium bicarbonate were able to reduce molybdenum below the GA GWPS standard at the 1.0, 2.0, and 10 g/L loadings.
2. The JT Baker ferrous sulfate contained cobalt which at the 1.0, 2.0, and 10 g/L loadings exceeded the McDonough GWPS.
3. The combination of ferrous sulfate and sodium bicarbonate maintained a neutral pH.

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Table 12. DGWC-69 Batch Tests Field Results

Sample		DGWC-69 Control		DGWC-69 0.1 g/L FeSO4-7H2O		DGWC-69 1.0 g/L FeSO4-7H2O		DGWC-69 2.0 g/L FeSO4-7H2O		DGWC-69 10.0 g/L FeSO4-7H2O		DGWC-69 0.1 g/L FeSO4-7H2O 0. 1 g/L NaHCO3		DGWC-69 1.0 g/L FeSO4-7H2O 1.0 g/L NaHCO3		DGWC-69 2.0 g/L FeSO4-7H2O 2.0 g/L NaHCO3		DGWC-69 10.0 g/L FeSO4-7H2O 10.0 g/L NaHCO3	
Day		0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7
Soil	g	900		900		900		900		900		900		900		900		900	
GW	g	494		586		640		571		600		592		594		591		600	
FeSO4-7H2O	g	0		0.058		0.64		1.2		6.0		0.059		0.59		1.18		6.0	
NaHCO3	g	0		0		0		0		0		0.059		0.59		1.18		6.0	
pH	SU	7.4	7.6	6.6	8.1	5.9	4.9	5.7	4.6	5.1	4.5	6.7	6.2	6.7	6.4	6.7	6.4	6.9	6.7
ORP	mV	+204	+227	+360	+181	+125	+173	+116	-39	+69	-61	+53	+135	+20	+120	-22	-84	-127	-153
DO	mg/L		8.1		8.2		5.2		4.1		7.4		7.0		4.5		2.9		1.8
Spec. Cond.	µS/cm		271		322		704		1064		3720		532		1069		2350		8130
Alk.	mg/L as CaCO3		<40		120		40		60		40		100		720		960		2400
Hard.	mg/L as CaCO3		80		120		80		360		1920		80		20		240		480
Fe	mg/L		0.3		0.9		0.8		4.8		1350		1.1		1.7		1.7		27.7
S	mg/L		0.04		0.06		0.1		<0.02		0.08		0.14		0.02		0.04		<0.02

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Table 13. GWC-69 Batch Tests Metals, Anions, and Others Results

Sample		GA GWPS	DGWC-69 Control	DGWC-69 0.1 g/L FeSO4-7H2O	DGWC-69 1.0 g/L FeSO4-7H2O	DGWC-69 2.0 g/L FeSO4-7H2O	DGWC-69 10.0 g/L FeSO4-7H2O	DGWC-69 0.1 g/L FeSO4-7H2O 0.1 g/L NaHCO3	DGWC-69 1.0 g/L FeSO4-7H2O 1.0 g/L NaHCO3	DGWC-69 2.0 g/L FeSO4-7H2O 2.0 g/L NaHCO3	DGWC-69 10.0 g/L FeSO4-7H2O 10.0 g/L NaHCO3
Day			7	7	7	7	7	7	7	7	7
Sulfate	mg/L		8.21	36.4	299	620	28700	44.0	385	702	3330
Fluoride	mg/L		<0.45	<0.45	<0.45	<0.45	<0.90	<0.45	<0.45	<0.45	<1.8
Chloride	mg/L		12.4	12.2	10.8	9.97	9.81	12.1	11.0	9.13	<12.0
As	mg/L	0.010	0.00239	0.000984	<0.00068	<0.00068	0.00143	0.000755	<0.00068	<0.00068	<0.00068
B	mg/L	4.0	0.0782	0.0725	0.0812	0.0854	<0.12	0.0752	0.080	0.0673	<0.120
Ba	mg/L	2	0.0226	0.0273	0.236	0.120	0.121	0.030	0.188	0.0849	0.0565
Be	mg/L	0.004	<0.000119	<0.000119	0.000416	0.00252	**0.00413**	<0.000119	<0.000119	<0.000119	<0.000119
Ca	mg/L		13.6	16.0	55.8	84.8	114	16.4	48.8	51.1	136
Cd	mg/L	0.0050	<0.000151	<0.000151	0.00063	0.00155	0.00284	<0.000151	0.000156	0.000221	<0.000151
Co	mg/L	0.024	0.000727	0.000713	**0.0418**	**0.0899**	**0.236**	0.000741	**0.00892**	**0.0342**	**0.0989**
Cr	mg/L	0.10	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055
Hg	mg/L		<0.0000790	<0.0000790	0.000113	<0.0000790	<0.0000790	<0.0000790	<0.0000790	0.000133	<0.0000790
Li	mg/L	0.040	<0.011	<0.011	0.020	0.0425	**<0.11**	<0.011	0.0158	0.0229	**<0.11**
Mo	mg/L	0.1	**0.107**	**0.124**	0.000316	<0.000130	0.000134	**0.144**	0.0806	0.0245	0.0694
Pb	mg/L	0.015	<0.00012	<0.00012	<0.00012	0.000512	0.00223	<0.00012	<0.00012	<0.00012	<0.00012
Sb	mg/L	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se	mg/L	0.050	<0.000278	<0.000278	<0.000278	<0.000278	0.000359	<0.000278	<0.000278	<0.000278	0.000421
Tl	mg/L	0.0020	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
TDS	mg/L		38.5	59.5	366	418	1720	50.6	521	1630	3840
pH	SU		7.59	7.56	5.43	4.53	4.26	7.55	7.13	7.20	6.94
Temperature	°C		22.0	21.6	21.5	21.9	21.7	22.0	21.6	21.2	21.3

7.37 J Value. Compound detect above the method detection limit but below method calibration range.
0.00767 Compound exceeds GA or McDonough GWPS

4.0 DGWC-48 COLUMN TESTS

4.1 Objectives

- Evaluate pore volume treatment and evolution under transient flow conditions similar to field flow rate
- Evaluate influence on permeability / flow through column
- Field flow rate: 0.27 feet per day with 3 feet long columns
- DGWC-48 soil and groundwater with control and three reagents (4 total columns)
- Analyze complete chemistry on aqueous sample (pH, ORP, SC, alkalinity, anions [SO4 Cl, F], dissolved metals [As, Ba, Be, B, Ca, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, Tl]], TDS, pH, sulfide, ferrous iron)
- Record observations related to flow, leakage, precipitation, and photograph periodically

The column study used three reagents at one loading per reagent. All reagents used for the bench-scale test were commercially available products selected in consultation with WSP. The reagent usages and their dosages were adjusted according to the results of the activities and observations during the execution of the bench-scale treatability study.

4.2 Column Treatments

Table 14 presents the treatments for the DGWC-48 column studies.

Table 14. Column Treatments

Column	Round 1 Reagent	Round 2 Reagent
1	Control – GW only	Control – GW only
2	GW w/ potassium bicarbonate	GW w/ carbon
3	GW w/ ferrous sulfate	GW w/ carbon
4	GW w/ carbon (low dose)	GW w/ carbon (high dose)

4.3 Column Studies Preparation

The columns were prepared by installing a 3/8" plastic bushing to a small luer outlet onto both endcaps. The weight of the empty column and endcaps was recorded. The bottom endcap had a geotextile membrane layer at the bottom and was glued onto the column. The soil was weighed and then added to the column while maintaining the groundwater level (to prevent trapping air bubbles). The columns were filled with soil and groundwater and periodically tapped and the soil tamped to remove air bubbles. Once each column was filled, a geotextile covering was placed over the soil and the top endcap was glued onto the column.

Four 36-inch long 3-inch diameter clear PVC columns (4.40 to 4.60 L volume) were prepared with 6.44 to 6.73 kg soil and 1.44 to 1.58 kg groundwater (Table 15). The treatment with potassium bicarbonate was prepared with 2 g/L of the LD Carlson $KHCO_3$. The pH of the groundwater was 5.7 SU and increased to 7.8 SU after the addition of the potassium bicarbonate. The CERES ferrous sulfate heptahydrate solution was prepared with 1 g/L $FeSO_4$-$7H_2O$ (pH 4.0) and then 2 g/L of sodium bicarbonate was added to bring the pH to 7.0 SU. For the ADA Carbon column, 57.3 g Fluxsorb II was added to the soil and mixed with an electric drill and auger. The effective porosity ranged from 32.2 to 34.8%.

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Table 15. Column Setup

Sample	Column Tare	Column Volume	Soil Volume	GW Volume	Packed Column Volume	Porosity	GW pH	+ 2 g/L KHCO3 pH	1 g/L FeSO4-7H2O pH	+ 2 g/L NaHCO3 pH	g FluxSorb II
	kg	L	kg	kg	kg	%					
Control	2.34	4.54	6.72	1.58	8.30	34.8					
2 g/L KHCO3	2.50	4.60	6.52	1.48	8.00	32.2	5.7	7.8			
1 g/L FeSO4-7H2O	2.37	4.40	6.44	1.44	7.42	32.7			4.0	7.0	
FluxSorb II	2.40	4.58	6.73	1.54	7.50	33.6					57.3

A photograph of the columns after setup is presented in Figure 7. Control Column 1 is on the left, followed by Columns 2 KHCO3, 3 FeSO4, and 4 Fluxsorb II. The soil settled after preparation and the top endcap being glued in place and there is standing groundwater on the top of each column.

During Round I, the Control 1 and ADA Carbon 4 columns received the untreated DGWC-48 groundwater. The influent for Column 2 with KHCO3 received 2 g/L potassium bicarbonate for the first 21 days. Column 3 with FeSO4-7H2O received 1 g/L ferrous sulfate heptahydrate adjusted to pH 7.0 with sodium bicarbonate for the first seven days. The columns were run for 21 days with amended groundwater alone. The remaining effluents from each column after sample collection from the first three weeks were saved separately and used as the influents for the last two weeks for Round 2. On Day 22 (after 3 days without flow while waiting for instructions from WSP for dosing with ADA Carbon), Column 1 received untreated DGWC-48 groundwater. Column 2 (KHCO3) received 57.3 g of the Fluxsorb II in the 0.8 L of untreated DGWC-48 groundwater, Column 3 (FeSO4) received 57.3 g of the Fluxsorb II in 0.8 L of the untreated DGWC-48 groundwater and 114.6 g Fluxsorb II (4 ADA Carbon) was introduced suspended in 0.74 L of the untreated DGWC-48 groundwater. The solutions were continually mixed with magnetic stirrers and pumped onto the bottom of the columns. On Day 25, the columns were switched to the collected effluents from Phase I. The activated carbon continued to move through the columns.

Amendments for the columns are summarized in Table 16. For Column 1 Control, additional DGWC-48 groundwater was added to the influent jug on Days 7, 14, 20, 22, 23, and 24. On Day 25, the influent was switched over to the combined Column 1 effluent from Days 1 to 21.

For Column 2 $KHCO_3$, 6 g of potassium bicarbonate was added to 3,000 g of DGWC-48 groundwater. Some of this solution was used to prepare the column. Additional potassium bicarbonate and groundwater was added on Days 2 and 20. The 57.3 g Fluxsorb II was added to 0.8 L of the groundwater on Day 22. On Day 24, an additional 0.447 L of groundwater was added to the bottle with the ADA Fluxsorb II. Little of the carbon solution (0.8 g) remained in the influent bottle on Day 25. On Day 25, the influent was switched over to the combined Column 2 effluent from Days 1 to 21.

For Column 3 with $FeSO_4$, 3 g of CERES ferrous sulfate heptahydrate was added to 3,000 mL of groundwater and the pH adjusted to 7.0 SU with 6 g/L sodium bicarbonate. On Days 7, 14, and 20, unamended groundwater was added to the influent for Column 3. On Day 22, 57.3 g Fluxsorb II was added to 0.8 L of the groundwater. On Day 25, an additional 0.453 L of groundwater was added to the bottle with the ADA Fluxsorb II. On Day 25, 0.346 kg of the ADA Fluxsorb II and groundwater remained in the influent bottle. On Day 25, the influent was switched over to the combined Column 3 effluent from Days 1 to 21.

For the Column 4 with ADA Fluxsorb II, 57.3 g was added to the soil and groundwater during setup. On Days 7, 14, and 20, unamended groundwater was added to the influent for Columns 1 and 4. On Day 22, the 114.6 g Fluxsorb II was added to 0.74 L of the groundwater. On Day 23 and 24, a total of 0.835 L of groundwater was added to the bottle with the ADA Fluxsorb II. On Day 25, the influent was switched over to the combined Column 4 effluent from Days 1 to 21.

4.4 Column Studies Results

4.2.1 Field Parameters

The influent groundwater was pumped from the bottom of the columns with peristaltic pumps at a flow rate of 0 to 1.125 mL/min. The average flowrates were 0.13 (4 ADA Carbon), 0.21 (2 KHCO3), 0.30 (1 Control), to 0.33 mL/min (3 FeSO4) or ranged from 187 to 475 mL/day or a residence time in the column of 6.8 days (2 KHCO3), 7.7 days (1 Control), 8.0 days (3 FeSO4), to 12.6 days (4 ADA Carbon).

Table 17 presents the field results for the untreated groundwater (influent) pumped into columns 1 and 4 through Day 25. From Days 25 to 39, the effluent from control column from Days 1-21 was pumped through the control column and the effluent from ADA Carbon column from Days 1 to 21 was pumped through the ADA Carbon column. The pH ranged from 5.4 to 8.0 SU with moderately oxidizing ORPs of +178 to +253 mV. The DO remained high between 8.4 and 10.8 mg/L as the jug was open to the atmosphere. Specific conductivity ranged from 457 to 625 µS/cm. There was little alkalinity (<40 to 60 mg/L $CaCO_3$), moderate hardness (40 to 600 mg/L $CaCO_3$), ferrous iron decreased from 13.25 mg/L on Day 7 to <0.05 mg/L. There was also little sulfide (<0.02 to 0.08 mg/L).

Table 18 presents the field results for Column 1 Control effluent. The flowrate ranged from 0.004 to 0.86 mL/min with a total of 7.99 L of groundwater going through the column or about 5.1 pore volumes. The pH ranged from 5.4 to 7.4 SU with moderately oxidizing ORPs of +169 to +249 mV. The DO remained high between 5.1 and 7.5 mg/L. Specific conductivity ranged from 424 to 880 µS/cm. Alkalinity ranged from 40 to 960 mg/L $CaCO_3$), hardness ranged from 40 to 480 mg/L $CaCO_3$, ferrous iron decreased from 10.3 mg/L on Day 7 to 0.2 mg/L. There was also little sulfide (<0.02 to 0.08 mg/L). A picture of Column 1 Control on Day 39 is shown in Figure 8.

Table 19 presents the field results for the influent to Column 2 $KHCO_3$. Influent samples were collected on days 7, 14, 21, and 39. The pH ranged from 6.6 to 8.6 SU with moderately oxidizing ORPs of +175 to +263 mV. The DO remained high between 7.1 and 9.8 mg/L as the jug was open to the atmosphere. Specific conductivity was 2,440-2,510 µS/cm from Days 7 to 21 and was lower 676 µS/cm on Day 39. There was moderate alkalinity (200 to 1,200 mg/L $CaCO_3$), moderate hardness ranged from 180 to 320 mg/L $CaCO_3$, ferrous iron decreased from 8.65 mg/L on Day 14 to <0.05 mg/L on day 21. There was also little sulfide (<0.02 to 0.36 mg/L). On Day 24, the influent contained 32,100 mg/L of ADA Carbon as measured by turbidity.

Figure 7. Columns

Table 16. Amendments for Columns

1 Control	Day 7, added 2.0 L to Influent for Columns 1 and 4.
	Day 14, added GW to Influent for Columns 1 and 4.
	Day 20, added GW to Influent for Columns 1 and 4.
	Day 22, added GW to Influent for Column 1.
	Day 23, added GW to Influent for Column 1
	Day 24, added GW to Influent for Column 1.
	Day 25, switch over to Column 1 Effluent. 3.48 kg.
2 KHCO3	During setup, added 6 g KHCO3 to 3000 mL groundwater, used 1480 g in column preparation, and pumped remainder through column.
	Day 2 added 6 g KHCO3 to 3000 mL groundwater.
	Day 20, added 1 g KHCO3 to 1000 mL groundwater
	Day 22, add 57.3 Fluxsorb II to 0.8 L GW.
	Day 24, add 447.1 mL groundwater to influent.
	Day 25, only 0.8 g Fluxsorb II and groundwater in influent bottle.
	Day 25, switch over to Column 2 Effluent. 2.64 kg.
3 FeSO4-7H20	During setup, added 3 g CERES FeSO4-7H2O to 3000 mL groundwater and adjusted pH to 7.0 with 6 g NaHCO3, used 1440 g in column preparation, and pumped remainder through column.
	Day 7, added 1.78 L GW to influent without ferrous sulfate.
	Day 14, added GW to Influent for Column 3.
	Day 20, added1 L GW to Influent for Column 3.
	Day 22, add 57.3 Fluxsorb II to 0.8 L GW.
	Day 23, add 453.1 g groundwater to influent
	Day 25, 345.7 g Fluxsorb II and groundwater remaining in influent bottle.
	Day 25, switch over to Column 3 Effluent. 3.04 kg.
4 Fluxsorb II	During setup, add 57.3 g Fluxsorb II to soil and groundwater and mixed.
	Day 7, added 2.0 L to Influent for Columns 1 and 4.
	Day 14, added GW to Influent for Columns 1 and 4.
	Day 20, added GW to Influent for Columns 1 and 4.
	Day 22, add 114.6 Fluxsorb II to 0.74 L GW.
	Day 23, add 498.8 g groundwater
	Day 24, add 336.4 g groundwater
	Day 25, switch over to Column 4 Effluent.

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Table 17. Column Influent Field Results

Start	Stop	min		Day	pH	ORP	DO	Spec. Cond.	Hach Alk	Hach Hardness	Hach Fe2+	Hach S
					SU	mV	mg/L	mS/cm	mg/L CaCO3	mg/L CaCO3	mg/L	mg/L
3/12/24 12:52 PM	3/13/2024 7:30	1118		1	5.8	+188	10.8	582				
3/13/2024 12:03	3/14/24 9:21 AM	1278		2	5.4	+193	10.0	625				
3/14/24 2:20 PM	3/15/24 12:58 PM	1358		3								
3/15/24 2:20 PM	3/16/24 9:07 AM	1127		4								
3/16/24 9:51 AM	3/19/2024 8:25	4234		7	5.6	+180	9.2	571	<40	600	13.25	0.02
3/19/2024 11:38	3/22/2024 13:46	4448		10								
3/22/2024 14:10	3/26/2024 8:56	5446		14	8.0	+192	9.4	569	60	240	1.7	<0.02
3/26/2024 15:50	4/2/2024 8:20	9630		21	7.1	+214	9.6	521	40	360	5.65	0.02
4/5/2024 13:41	4/6/2024 13:00	1399		22								
4/6/2024 13:35	4/7/2024 12:50	1395		23								
4/7/2024 13:25	4/8/2024 15:35	1570		24								
4/8/2024 16:02	4/9/2024 8:12	970		25	7.7	+183	8.8	511	40	360	<0.05	0.06
4/9/2024 13:00	4/11/2024 14:16	2956		27								
4/11/2024 14:25	4/12/24 9:00 AM	1115		28								
4/12/24 9:28 AM	4/16/2024 8:40	5712		32	6.9	+178	8.4	469	40	40	0.4	0.08
4/16/2024 15:33	4/18/2024 8:49	2476		34								
4/18/2024 9:00	4/23/2024 7:50	7130		39	6.9	+253	9.1	457	40	60	0.6	<0.02

Table 18. Column 1 Control Effluent Field Results

Day	Flow	Cum Flow	Flowrate	Pore Volumes	Cum PV	pH	ORP	DO	Spec. Cond.	Hach Alk	Hach Hardness	Hach Fe2+	Hach S
	mL	mL	mL/min	mL		SU	mV	mg/L	mS/cm	mg/L CaCO3	mg/L CaCO3	mg/L	mg/L
1	23	23	0.021	0.01	0.01								
2	1093.2	1116	0.855	0.69	0.71	5.4	+196	6.4	880				
3	191.8	1308	0.141	0.12	0.83	6.4	+186	5.8	787				
4	76.2	1384	0.068	0.05	0.88	7.4	+169	6.1	772	960			
7	16.9	1401	0.004	0.01	0.89	5.6	+176	6.5	772	960	480	10.3	0.06
10	238	1639	0.054	0.15	1.04								
14	1162.1	2801	0.213	0.74	1.77	6.7	+230	5.1	722	240	360	4.35	<0.02
21	174.6	2976	0.018	0.11	1.88	6.8	+221	7.5	629	120	360	0.25	0.04
22	1009.4	3985	0.722	0.64	2.52								
23	653.1	4638	0.468	0.41	2.94								
24	686.3	5325	0.437	0.43	3.37								
25	430.07	5755	0.443	0.27	3.64	7.1	+187	6.2	548	60	360	0.2	0.02
27	476	6231	0.161	0.30	3.94								
28	79.7	6310	0.071	0.05	3.99								
32	699.3	7010	0.122	0.44	4.44	6.7	+179	5.6	424	40	120	0.5	0.08
34	558.3	7568	0.225	0.35	4.79								
39	421.3	7989	0.059	0.27	5.06	6.8	+249	6.1	466	40	40	0.75	<0.02

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Table 19. Column 2 KHCO3 Influent Field Results

2I	KHCO3 Influent								
Day	pH	ORP	DO	Spec. Cond.	Hach Alk	Hach Hardness	Hach Fe2+	Hach S	ADA Carbon
	SU	mV	mg/L	mS/cm	mg/L CaCO3	mg/L CaCO3	mg/L	mg/L	mg/L
7	6.6	+182	7.1	2480	960	200	0.0	0.36	
14	8.6	+233	9.3	2440	960	180	8.65	<0.02	
21	8.1	+175	9.8	2510	1200	240	<0.05	0.08	
25									32100
39	7.1	+263	9.0	676	200	320	1.45	<0.02	

Table 20. Column 2 KHCO3 Effluent Field Results

Day	Flow	Cum Flow	Flowrate	Pore Volumes	Cum PV	pH	ORP	DO	Spec. Cond.	Hach Alk	Hach Hardness	Hach Fe2+	Hach S	ADA Carbon
	mL	mL	mL/min	mL		SU	mV	mg/L	mS/cm	mg/L CaCO3	mg/L CaCO3	mg/L	mg/L	mg/L
1	1258.2	1258.2	1.125	0.85	0.85	6.4	+210		1127					
2	17.9	1276.1	0.014	0.01	0.86	6.8	1+93		1303					
3	171.1	1447.2	0.126	0.12	0.98	6.4	+197		1112					
4	49.9	1497.1	0.044	0.03	1.01	6.6	+189		1116					
7	42.5	1539.6	0.010	0.03	1.04	5.9	+173	5.3	1195	480	40	4.05	0.02	
10	304.1	1843.7	0.068	0.21	1.24									
14	1088.9	2932.6	0.20	0.74	1.98	6.7	+247	3.2	1197	480	120	<0.05	<0.02	
21	1561.9	4494.5	0.162	1.05	3.03	6.9	+198	6.8	1150	600	240	<0.05	0.06	
22	427.7	4922.2	0.306	0.29	3.32									
23	49.4	4971.6	0.035	0.03	3.36									0
24	473.9	5445.5	0.302	0.32	3.68									2824
25	377.3	5822.8	0.389	0.25	3.93	7.0	+180	5.6	1146	360	240	<0.12	0.3	12600
27	511.3	6334.1	0.173	0.35	4.28									
28	179.5	6513.6	0.161	0.12	4.40									
32	692.4	7206.0	0.121	0.47	4.86	6.9	+189	4.3	845	360	60	1.15	0.1	3324
34	560.4	7766.4	0.226	0.38	5.24									
39	716.1	8482.5	0.100	0.48	5.73	6.7	+242	2.4	770	300	120	1.88	<0.05	1432

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Table 21. Column 3 FeSO4 Influent Field Results

3I	FeSO4-7H20 Influent							
Day	pH	ORP	DO	Spec. Cond.	Hach Alk	Hach Hardness	Hach Fe2+	Hach S
	SU	mV	mg/L	mS/cm	mg/L CaCO3	mg/L CaCO3	mg/L	mg/L
7	8.4	+157	8.8	2390	840	120	8.25	0.04
14	6.7	+230	5.1	722	240	360	4.35	<0.02
25	7.1	+165	8.2	547				
39	7.5	+244	8.9	727	180	60	0.7	<0.05

Table 22. Column 3 FeSO4 Effluent Field Results

Day	Flow	Cum Flow	Flowrate	Pore Volumes	Cum PV	pH	ORP	DO	Spec. Cond.	Hach Alk	Hach Hardness	Hach Fe2+	Hach S	ADA Carbon
	mL	mL	mL/min	mL		SU	mV	mg/L	mS/cm	mg/L CaCO3	mg/L CaCO3	mg/L	mg/L	mg/L
1	0.0	0	0.000	0.00	0.00									
2	0	0												
3	0	0												
4	811.2	811.2	0.720	0.56	0.56	6.6	+184	5.4	1394					
7	288.7	1099.9	0.068	0.20	0.76	7.0	+171	8.2	1517	480	60	0.25	0.02	
10	643.7	1743.6	0.145	0.45	1.21									
14	820.4	2564	0.151	0.57	1.78	6.7	+238	6.7	1336	720	240	<0.05	<0.02	
21	2341.2	4905.2	0.243	1.63	3.41	6.6	+188	5.0	843	240	240	<0.05	0.14	
22	360.7	5265.9	0.258	0.25	3.66									0
23	411.8	5677.7	0.295	0.29	3.94									61
24	102.6	5780.3	0.065	0.07	4.01									49
25	0	5780.3	0.000	0.00	4.01	6.9	+165	7.1	758	120	240	<0.10	0.05	35
27	0	5780.3	0.000	0.00	4.01									
28	54.2	5834.5	0.049	0.04	4.05									
32	583.3	6417.8	0.102	0.41	4.46	6.9	+176	5.9	554	120	240	0.25	0.1	1592
34	610.5	7028.3	0.247	0.42	4.88									
39	0	7028.3	0.000	0.00	4.88	6.7	+249	2.0	610	120	60	5.62	0.16	1347

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Table 23. Column 4 ADA Fluxsorb II Effluent Field Results

Day	Flow	Cum Flow	Flowrate	Pore Volumes	Cum PV	pH	ORP	DO	Spec. Cond.	Hach Alk	Hach Hardness	Hach Fe2+	Hach S	ADA Carbon
	mL	mL	mL/min	mL		SU	mV	mg/L	mS/cm	mg/L CaCO3	mg/L CaCO3	mg/L	mg/L	mg/L
1	0	0		0.00	0.00									
2	4.0	4	0.003	0.00	0.00									
3	0	4	0.000	0.00	0.00									
4	0	4	0.000	0.00	0.00									
7	173.5	177.5	0.041	0.11	0.11	6.7	+180	8.2	801	40	480	11.25	<0.02	35
10	595.9	773.4	0.134	0.39	0.39									
14	693.7	1467.1	0.127	0.45	0.56	6.7	+232	6.8	684	80	240	<0.05	<0.02	
21	498.7	1965.8	0.052	0.32	0.89	6.4	+194		603	80	240	<0.05	0.04	
22	352.9	2318.7	0.252	0.23	1.12									0
23	384.7	2703.4	0.276	0.25	1.37									121
24	478.7	3182.1	0.305	0.31	1.68									100900
25	346.8	3528.9	0.358	0.23	1.90	7.1	+165	6	628	120	240	0.3	0.6	27510
27	163.9	3692.8	0.055	0.11	2.01									
28	413.3	4106.1	0.371	0.27	2.28									
32	563.7	4669.8	0.099	0.37	2.64	7.0	+174	5.7	451	120	240	0.6	0.2	3162
34	109.1	4778.9	0.044	0.07	2.71									
39	0	4778.9	0.000	0.00	2.71	6.9	+248	8.3	435	80	40	0.55	0.05	3324

Figure 8. Column 1 Control Day 39

Figure 9. Column 2 KHCO3 Day 39

Figure 10. Column 3 FeSO4 Day 39

Figure 11. Column 4 FeSO4 Day 39

Table 20 shows the field results for Column 2 $KHCO_3$ effluent. The flowrate ranged from 0.01 to 1.1 mL/min with a total of 8.5 L of groundwater going through the column or about 5.7 pore volumes. The pH ranged from 5.9 to 7.0 SU with moderately oxidizing ORPs of +173 to +247 mV. The DO ranged between 2.4 and 6.8 mg/L which was lower than the column influent. Specific conductivity ranged from 770 to 1,303 µS/cm. Alkalinity ranged from 300 to 600 mg/L $CaCO_3$, hardness ranged from 40 to 240 mg/L $CaCO_3$, ferrous iron decreased from 4.1 mg/L on Day 7 to <0.05 mg/L on Days 10-14 but increased to between 1.15 and 1.88 mg/L during recirculation of the effluent and after the ADA Carbon addition. There was also little sulfide (<0.02 to 0.3 mg/L). On Day 24, the influent contained 2,824 mg/L of ADA Carbon as measured by turbidity. A peak of carbon of 12,600 mg/L was observed on Day 25 and decreased to 1,432 mg/L on Day 39. A picture of Column 2 KHCO3 on Day 39 is shown in Figure 9. There is no discernible carbon banding in this column. There is carbon in the water at the top of the column.

Table 21 presents the field results for the influent to Column 3 $FeSO_4$. Influent samples were collected on days 7, 14, 25, and 39. The pH ranged from 6.7 to 8.4 SU with moderately oxidizing ORPs of +157 to +244 mV. The DO ranged between 5.1 and 8.9 mg/L. Specific conductivity was 2,390 µS/cm on Day 7 when the ferrous sulfate heptahydrate solution was being pumped onto the column and dropped to 547 to 727 µS/cm from Days 14 to 39 when the unamended groundwater (Days 7 to 21), ADA Carbon with unamended groundwater (Days 22 to 25) and combined recirculated effluent (Days 25 to 39). There was moderate alkalinity (180 to 840 mg/L $CaCO_3$), moderate hardness ranged from 60 to 360 mg/L $CaCO_3$, ferrous iron decreased from 8.25 mg/L on Day 14 to 0.7 mg/L on Day 39. There was also little sulfide (<0.02 to 0.04 mg/L).

Table 22 presents the field results for Column 3 $FeSO_4$ effluent. The flowrate ranged from 0 to 0.72 mL/min with a total of 7.0 L of groundwater going through the column or about 4.9 pore volumes. The pH ranged from 6.6 to 7.0 SU with moderately oxidizing ORPs of +165 to +249 mV. The DO ranged between 2.0 and 8.2 mg/L which was lower than the column influent. Specific conductivity ranged from 554 to 1,517 µS/cm. Alkalinity ranged from 120 to 720 mg/L $CaCO_3$, moderate hardness ranged from 60 to 240 mg/L $CaCO_3$, ferrous iron ranged from <0.05 mg/L to 5.62 mg/L on Day 39. There was also little sulfide (<0.02 to 0.16 mg/L). On Day 23, the influent contained 61 mg/L of ADA Carbon as measured by turbidity. A peak of carbon of 1,592 mg/L was observed on Day 34 and decreased to 1,347 mg/L on Day 39. Figure 10 shows Column 3 FeSO4 at Day 39 with bands of activated carbon on the surface. There is also carbon in the water at the top of the column.

Table 23 presents the field results for Column 4 ADA Fluxsorb II effluent. The flowrate ranged from 0 to 0.37 mL/min with a total of 4.8 L of groundwater going through the column or about 2.7 pore volumes. The flowrate through this column was lower than the other columns which suggests that the carbon reduced the permeability. There was no turbidity observed in the effluent from Days 1 to 21 suggesting that emplacement of the ADA Carbon with the soil achieved good distribution and did not leach from the column. The pH ranged from 6.4 to 7.1 SU with moderately oxidizing ORPs of +165 to +248 mV. The DO ranged between 5.7 and 8.3 mg/L which was lower than the column influent. Specific conductivity ranged from 435 to 801 µS/cm. Alkalinity ranged from 40 to 120 mg/L $CaCO_3$, hardness ranged from 40 to 240 mg/L $CaCO_3$, ferrous iron ranged from <0.05 to 11.25 mg/L. There was also little sulfide (<0.02 to 0.6 mg/L).

On Day 23, the influent contained 121 mg/L of ADA Carbon as measured by turbidity. A peak of carbon of 100,900 mg/L was observed on Day 24 and decreased to 3,324 mg/L on Day 39. Figure 11 shows the Column 4 ADA Carbon at Day 39 with scattered bands of activated carbon on the surface. There is also carbon in the water at the top of the column.

4.2.2 Metals and Anions

Table 24 presents the metals, anions, TDS, and pH for the Influent and the Column 1 Control Effluent. Table 25 presents the metals, anions, TDS, and pH for the Column 2 KHCO3 Influent and the Column 2 Effluent. Table 26 presents the metals, anions, TDS, and pH for the Column 3 FeSO4 Influent and the Column 3 Effluent. Table 27 presents the metals, anions, TDS, and pH for the Influent and the Column 4 ADA Carbon Effluent.

Tables 28, 29, 30, and 31 show the concentrations of beryllium, cobalt, boron, and lithium in the influent and effluent over time for each of the four columns and the percent removal from the influent the previous week (about one pore volume).

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Table 24. Metals, Anions, TDS, and pH in Influent and Column 1 Control Effluent

			Influent							1	Control Effluent				
Day		GA GWPS	7	14	21	25	32	39		7	14	21	25	32	39
Dis Sb	mg/L	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.000278	<0.00020	<0.00020	<0.00020
Dis As	mg/L	0.010	<0.00068	<0.00068	<0.00068	<0.00068	0.000857	0.000821		<0.00068	<0.00068	<0.00013	<0.00068	<0.00068	<0.00068
Dis Ba	mg/L	2.0	0.0209	0.0175	0.0248	0.0206	0.0210	0.0273		0.0217	0.0194	0.0203	0.0173	0.0205	0.0332
Dis Be	mg/L	0.0040	**0.00662**	**0.00572**	**0.00812**	**0.00707**	<0.000119	<0.000119		0.000297	0.000309	0.000232	0.000259	0.000196	<0.000119
Dis B	mg/L	4.0	0.692	0.660	0.651	0.582	0.491	0.509		0.443	0.474	0.587	0.552	0.551	0.540
Dis Ca	mg/L		63.4	65.0	59.4	57.4	59.3	62.8		74.2	67.6	58.6	53.7	53.7	60.1
Dis Cd	mg/L	0.0050	0.00253	0.00254	0.00242	0.00256	0.000537	0.000457		0.000774	0.000173	0.000962	0.000797	0.000410	0.000182
Dis Co	mg/L	0.024	**0.314**	**0.399**	**0.291**	**0.294**	**0.154**	**0.135**		**0.195**	**0.184**	**0.138**	**0.145**	**0.137**	**0.120**
Dis Cr	mg/L	0.010	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055		0.00172	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055
Dis Fe	mg/L		0.0647	<0.020	0.0461	0.102	0.321	0.0286		0.0367	0.959	0.0262	<0.020	0.539	2.68
Dis Hg	mg/L		0.000091	<0.000079	0.000084	<0.000079	<0.000079	<0.000079		0.00010	<0.000079	8.52E-05	<0.000079	<0.000079	<0.000079
Dis Li	mg/L	0.040	**0.0953**	**0.100**	**0.0968**	**0.100**	<0.011	<0.011		<0.011	<0.011	<0.011	0.0128	<0.011	<0.011
Dis Mo	mg/L	0.10	<0.00013	<0.00013	<0.00013	<0.00013	0.000271	0.000231		0.000585	<0.00013	0.00104	<0.00013	0.000135	<0.00013
Dis Pb	mg/L	0.015	0.000641	<0.00012	0.000402	0.000841	0.000264	<0.00012		<0.00012	<0.00012	<0.00012	0.000231	<0.00012	<0.00012
Dis Se	mg/L	0.050	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278		<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278
Dis Tl	mg/L	0.0020	0.000187	<0.00013	0.000366	<0.00013	<0.00013	<0.00013		<0.00013	<0.00013	0.000169	<0.00013	<0.00013	<0.00013
TDS	mg/L		427	405	448	343	498	320		795	584		388	460	454
Temp	°C		22.0	22.4	21.7	23.6	22.8	23.0		21.1	21.6		23.7	22.7	22.9
pH	SU		3.95	5.91	5.99	4.0	6.93	6.98		6.15	6.54		6.10	6.20	6.19
Chloride	mg/L		6.4	6.43	6.86	6.29	10.7	9.55		15.9	10.6		6.78	7.34	7.65
Fluoride	mg/L		0.553	<0.45	<0.45	<0.45	<0.45	<0.45		<0.45	<0.45		<0.45	<0.45	<0.45
Sulfate	mg/L		262	270	279	251	307	308		394	346		271	265	275

7.37 J Value. Compound detect above the method detection limit but below method calibration range
0.0972 Compound exceeds GA or McDonogh GWPS

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Table 25. Metals, Anions, TDS, and pH in Column 2 KHCO3 and Column 2 Effluent

2I	KHCO3 Influent								2	KHCO3 Effluent				
Day		GA GWPS	7	21	25	32	39		7	14	21	25	32	39
Dis Sb	mg/L	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dis As	mg/L	0.010	<0.00068	0.00109	<0.00068	<0.00068	<0.00068		<0.00068	<0.00068	<0.00068	<0.00068	0.00156	0.00249
Dis Ba	mg/L	2.0	0.0186	0.0142	0.0422	0.0422	0.0422		0.0416	0.0441	0.0410	0.0931	0.068	0.0549
Dis Be	mg/L	0.0040	0.00156	0.00187	0.00005	0.00005	0.00005		<0.000119	<0.000119	0.000135	<0.000119	<0.000119	<0.000119
Dis B	mg/L		0.725	0.618	0.462	0.462	0.462		0.440	0.452	0.494	0.438	0.467	0.464
Dis Ca	mg/L		61.2	56.3	102.8	102.8	102.8		97.4	114	97.1	104	82.3	83.6
Dis Cd	mg/L	0.0050	0.00161	0.00137	0.00037	0.00037	0.00037		0.000715	0.000171	0.000211	<0.00151	0.000309	<0.00151
Dis Co	mg/L	0.024	**0.273**	**0.262**	**0.079**	**0.079**	**0.0793**		**0.104**	**0.0887**	**0.0435**	**0.035**	**0.0308**	0.0231
Dis Cr	mg/L	0.010	<0.000550	<0.000550	<0.000550	<0.000550	<0.000550		<0.00055	<0.00055	<0.00055	0.0667	0.00214	<0.00055
Dis Fe	mg/L		0.0473	0.0484	0.0083	0.0083	0.0083		0.0249	<0.020	<0.020	1.39	2.41	0.078
Dis Hg	mg/L	0.002	<0.000079	0.000106	0.000042	0.000042	0.000042		0.000125	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Dis Li	mg/L	0.040	**0.0969**	**0.0973**	0.0040	0.0040	0.0040		<0.011	0.0121	<0.011	<0.11	<0.011	<0.011
Dis Mo	mg/L	0.10	<0.00013	<0.00013	0.0018	0.0018	0.0018		0.00090	0.0014	0.00299	0.01170	0.00700	0.00495
Dis Pb	mg/L	0.015	0.000171	<0.000120	0.000042	0.000042	0.000042		<0.00012	<0.00012	0.000125	<0.00012	0.000165	<0.00012
Dis Se	mg/L	0.050	<0.000278	<0.000278	0.00012	0.00012	0.00012		0.000345	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278
Dis Tl	mg/L	0.0020	0.000392	0.000350	0.000045	0.000045	0.000045		0.000135	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
TDS	mg/L								670	853	834	810	562	507
Temp	ºC			22.2					21.1	20.9	21.4	23.6	22.8	23.0
pH	SU			8.22					6.85	6.84	6.85	7.53	6.78	6.80
Chloride	mg/L			6.86					12.9	12.3	9.62	7.17	9.24	9.10
Fluoride	mg/L			0.494					<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Sulfate	mg/L			277					374	349	338	270	289	299

7.37 J Value. Compound detect above the method detection limit but below method calibration range
<0.00020 Average Effluent Concentration from Days 7 to 21
0.0972 Compound exceeds GA or McDonogh GWPS

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Table 26. Metals, Anions, TDS, and pH in Column 3 $FeSO_4$ and Column 3 Effluent

3I	FeSO4-7H20 Influent							FeSO4-7H20 Effluent					
Day			7	25	32	39		7	14	21	25	32	39
Dis Sb	mg/L	0.006	<0.00020	0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dis As	mg/L	0.010	<0.00068	0.00023	0.00023	0.00023		0.000702	<0.00068	<0.00068	<0.00068	<0.00068	0.00303
Dis Ba	mg/L	2.0	0.0024	0.021	0.021	0.021		0.0265	0.0202	0.0165	0.0202	0.0388	0.0381
Dis Be	mg/L	0.0040	<0.000119	0.000064	0.000064	0.000064		<0.000119	<0.000119	0.000193	<0.000119	<0.000595	<0.000595
Dis B	mg/L		0.590	0.512	0.512	0.512		0.470	0.497	0.570	0.503	0.494	0.465
Dis Ca	mg/L		21.7	59.167	59.167<	59.167		75.9	60.6	41.0	39.0	40.3	43.7
Dis Cd	mg/L	0.0050	<0.000151	0.000221	0.000221	0.000221		0.000663	<0.000151	<0.000151	0.000212	<0.000755	<0.000151
Dis Co	mg/L	0.024	0.00852	**0.074**	**0.074**	**0.074**		**0.107**	**0.073**	**0.0432**	**0.0375**	**0.0316**	**0.0291**
Dis Cr	mg/L	0.010	<0.00055	<0.00055	<0.00055	<0.00055		<0.00055	<0.00055	<0.00055	<0.00055	<0.00275	0.00149
Dis Fe	mg/L		0.125	0.107	0.107	0.107		0.0334	0.0437	0.244	0.0333	<0.10	0.0469
Dis Hg	mg/L	0.002	<0.000079	0.000065	0.000065	0.000065		0.000108	<0.000079	8.82E-05	<0.000079	<0.000079	<0.000079
Dis Li	mg/L	0.040	**0.0972**	<0.011	<0.011	<0.011		<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Dis Mo	mg/L	0.10	0.0101	0.0013	0.0013	0.0013		0.00164	0.00150	0.000801	0.00183	0.00622	0.00474
Dis Pb	mg/L	0.015	<0.0012	<0.0012	<0.0012	<0.0012		<0.00012	<0.00012	<0.00012	<0.00012	<0.00060	<0.00012
Dis Se	mg/L	0.050	0.000438	0.00012	0.00012	0.00012		0.000357	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278
Dis Tl	mg/L	0.0020	<0.00013	<0.00013	<0.00013	<0.00013		<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
TDS	mg/L							1070	900	671	590	583	370
Temp	°C							21.3	21.0	22.2	23.7	22.8	23.0
pH	SU							7.04	7.10	6.58	7.26	6.84	6.81
Chloride	mg/L							14.8	11.6	8.16	7.03	6.79	7.55
Fluoride	mg/L							0.456	<0.45	<0.45	<0.45	<0.45	<0.45
Sulfate	mg/L							656	586	398	308	261	356

7.37 J Value. Compound detect above the method detection limit but below method calibration range
<0.00020 Average Effluent Concentration from Days 7 to 21
0.0972 Compound exceeds GA or McDonogh GWPS

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Table 27. Metals, Anions, TDS, and pH in Influent and Column 4 ADA Fluxsorb II Effluent

			Influent							4 Fluxsorb II Effluent					
Day		GA GWPS	7	14	21	25	32	39		7	14	21	25	32	39
Dis Sb	mg/L	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dis As	mg/L	0.010	<0.00068	<0.00068	<0.00068	<0.00068	0.000857	0.000821		<0.00068	<0.00068	<0.00068	<0.00068	0.00926	0.00148
Dis Ba	mg/L	2.0	0.0209	0.0175	0.0248	0.0206	0.0210	0.0273		0.0329	0.0211	0.0179	0.106	0.230	0.0657
Dis Be	mg/L	0.0040	0.00662	0.00572	0.00812	0.00707	<0.000119	<0.000119		<0.000119	0.000178	0.000165	<0.000119	<0.000119	<0.000119
Dis B	mg/L	4.0	0.692	0.660	0.651	0.582	0.491	0.509		0.482	0.458	0.472	0.347	0.505	0.483
Dis Ca	mg/L		63.4	65.0	59.4	57.4	59.3	62.8		79.2	50.9	46.7	48.7	40.8	45.6
Dis Cd	mg/L	0.0050	0.00253	0.00254	0.00242	0.00256	0.000537	0.000457		0.000918	0.000767	0.000498	<0.00151	<0.00151	0.000169
Dis Co	mg/L	0.024	**0.314**	**0.399**	**0.291**	**0.294**	**0.154**	**0.135**		**0.108**	**0.117**	**0.0957**	**0.0293**	0.0206	0.0239
Dis Cr	mg/L	0.010	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055		<0.00055	<0.00055	<0.00055	0.175	<0.00055	0.000699
Dis Fe	mg/L		0.0647	<0.020	0.0461	0.102	0.321	0.0286		0.103	<0.020	<0.020	1.97	<0.20	0.141
Dis Hg	mg/L		0.000091	<0.000079	0.000084	<0.000079	<0.000079	<0.000079		0.000114	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Dis Li	mg/L	0.040	**0.0953**	**0.100**	**0.0968**	**0.100**	<0.011	<0.011		0.0175	0.0157	<0.0110	<0.0110	<0.11	<0.0110
Dis Mo	mg/L	0.10	<0.00013	<0.00013	<0.00013	<0.00013	0.000271	0.000231		<0.00013	0.000251	0.000206	0.00174	0.00896	0.00562
Dis Pb	mg/L	0.015	0.000641	<0.00012	0.000402	0.000841	0.000264	<0.00012		<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	0.000131
Dis Se	mg/L	0.050	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278		<0.000278	<0.000278	<0.000278	<0.000278	<0.000278	<0.000278
Dis Tl	mg/L	0.0020	0.000187	<0.00013	0.000366	<0.00013	<0.00013	<0.00013		<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
TDS	mg/L		427	405	448	343	498	320		1070	507	504	614	341	
Temp	°C		22.0	22.4	21.7	23.6	22.8	23.0		21.3	22.0	21.4	23.7	22.8	
pH	SU		3.95	5.91	5.99	4.0	6.93	6.98		7.04	6.30	6.40	7.20	7.19	
Chloride	mg/L		6.4	6.43	6.86	6.29	10.7	9.55		14.8	10.2	9.35	6.17	7.51	
Fluoride	mg/L		0.553	<0.45	<0.45	<0.45	<0.45	<0.45		0.456	<0.45	<0.45	0.477	<0.45	
Sulfate	mg/L		262	270	279	251	307	308		656	314	328	260	298	

7.37 J Value. Compound detect above the method detection limit but below method calibration range
0.0972 Compound exceeds GA or McDonogh GWPS

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Table 28. Beryllium Concentrations in Influents and Effluents and Percent Removals

Day	Influent	Column 1	Column 2	Column 2	Column 3	Column 3	Column 4	Column 4
		Control	KHCO3		FeSO4		ADA Carbon	
		Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	**0.00767**		**0.00767**		**0.00767**		**0.00767**	
7	**0.00662**	0.000297	0.00156	<0.000119	<0.000119	<0.000119	**0.00662**	<0.000119
14	**0.00572**	0.000309	0.00187	<0.000119		<0.000119	**0.00572**	0.000178
21	**0.00812**	0.000232		0.000135		0.000193	**0.00812**	0.000165
			ADA Fluxsorb		ADA Fluxsorb		ADA Fluxsorb	
25	**0.00707**	0.000259	0.00005	<0.000119	0.000064	<0.000119	**0.00707**	<0.000119
32	<0.000119	0.000196	0.00005	<0.000119	0.000064	<0.000595	<0.000119	<0.000119
39	<0.000119	<0.000119	0.00005	<0.000119	0.000064	<0.000595	<0.000119	<0.000119
Percent Removal From Influent								
7	13.7	96.1	79.7	>98.4	>98.4	<98.4	13.7	>98.4
14	13.6	95.3	-19.9	>92.4			13.6	97.3
21	-42.0	95.9		92.8		>-62.2	-42.0	97.1
25	12.9	96.8	97.6	NA	NA	NA	12.9	>98.5
32	>83.2	97.2	0.0	NA	NA	NA	>98.3	>98.3
39	NA	NA	0.0	NA	NA	NA	NA	NA

7.37 J Value. Compound detect above the method detection limit but below method calibration range
<0.00020 Average Effluent Concentration from Days 7 to 21
0.0972 Compound exceeds GA or McDonogh GWPS

Table 29. Cobalt Concentrations in Influents and Effluents and Percent Removals

Day	Influent	Column 1	Column 2	Column 2	Column 3	Column 3	Column 4	Column 4
		Control	KHCO3		FeSO4		ADA Carbon	
		Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	**0.329**		**0.329**		**0.329**		**0.329**	
7	**0.314**	**0.195**	**0.273**	**0.104**	**0.00852**	**0.107**	**0.314**	**0.108**
14	**0.399**	**0.184**	**0.262**	**0.0887**		**0.073**	**0.399**	**0.117**
21	**0.291**	**0.138**		**0.0435**		**0.0432**	**0.291**	**0.0957**
			ADA Fluxsorb		ADA Fluxsorb		ADA Fluxsorb	
25	**0.294**	**0.145**	**0.0787**	**0.035**	**0.0744**	**0.0375**	**0.1069**	**0.0293**
32	**0.154**	**0.137**	**0.0787**	**0.0308**	**0.0744**	**0.0316**	**0.1069**	0.0206
39	**0.135**	**0.120**	**0.0787**	0.0231	**0.0744**	**0.0291**	**0.1069**	0.0239
Percent Removal From Influent								
7	4.6	40.7	17.0	68.4	97.4	67.5	4.6	67.2
14	-27.1	41.4	4.0	67.5		-756.8	-27.1	62.7
21	27.1	65.4		83.4		89.2	27.1	76.0
25	-1.0	50.2	69.9	55.0	74.4	87.1	63.3	89.9
32	47.6	53.4	0.0	60.9	0.0	57.5	0.0	80.7
39	12.3	22.1	0.0	70.7	0.0	60.9	0.0	77.6

<0.00020 Average Effluent Concentration from Days 7 to 21
0.0972 Compound exceeds GA or McDonogh GWPS

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Table 30. Boron Concentrations in Influents and Effluents and Percent Removals

Day	Influent	Column 1	Column 2	Column 2	Column 3	Column 3	Column 4	Column 4
		Control	KHCO3		FeSO4		ADA Carbon	
		Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	0.607		0.607		0.607		0.607	
7	0.692	0.443	0.725	0.440	0.590	0.470	0.692	0.482
14	0.660	0.474	0.618	0.452		0.497	0.660	0.458
21	0.651	0.587		0.494		0.570	0.651	0.472
			ADA Fluxsorb		ADA Fluxsorb		ADA Fluxsorb	
25	0.582	0.552	0.462	0.438	0.512	0.503	0.4710	0.347
32	0.491	0.551	0.462	0.467	0.512	0.494	0.4710	0.505
39	0.509	0.540	0.462	0.464	0.512	0.465	0.4710	0.483
Percent Removal From Influent								
7	-14.0	27.0	-19.4	27.5	2.8	22.6	-14.0	20.6
14	4.6	31.5	14.8	37.7		15.8	4.6	33.8
21	1.4	11.1		20.1		13.6	1.4	28.5
25	10.6	15.2	25.2	5.2	21.3	22.7	27.6	46.7
32	15.6	5.3	0.0	-1.1	0.0	3.6	0.0	-7.2
39	-3.7	-10.0	0.0	-0.4	0.0	9.2	0.0	-2.5

7.37 J Value. Compound detect above the method detection limit but below method calibration range
<0.00020 Average Effluent Concentration from Days 7 to 21

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Table 31. Lithium Concentrations in Influents and Effluents and Percent Removals

Day	Influent	Column 1	Column 2	Column 2	Column 3	Column 3	Column 4	Column 4
		Control	KHCO3		FeSO4		ADA Carbon	
		Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	**0.091**		**0.091**		**0.091**		**0.091**	
7	**0.0953**	<0.011	**0.0969**	<0.011	**0.0972**	<0.011	**0.0953**	0.0175
14	**0.100**	<0.011	**0.0973**	0.0121		<0.011	**0.100**	0.0157
21	**0.0968**	<0.011		<0.011		<0.011	**0.0968**	<0.0110
			ADA Fluxsorb		ADA Fluxsorb		ADA Fluxsorb	
25	**0.100**	0.0128	0.0040	<0.11	<0.011	<0.011	0.0111	<0.0110
32	<0.011	<0.011	0.0040	<0.011	<0.011	<0.011	0.0111	<0.11
39	<0.011	<0.011	0.0040	<0.011	<0.011	<0.011	0.0111	<0.0110
Percent Removal From Influent								
7	-4.7	>87.9	-6.5	>87.9	-6.8	>87.9	-4.7	80.8
14	-4.9	>88.5	-0.4	87.5			-4.9	83.5
21	3.2	>89.0					3.2	>89.0
25	-3.3	86.8	95.9	NA	>88.7	NA	88.5	>88.6
32	>89.0	>89.0	0.0	NA	NA	NA	0.0	<-891.0
39	NA	NA	0.0	NA	NA	NA	0.0	>0.9

7.37 J Value. Compound detect above the method detection limit but below method calibration range
<0.00020 Average Effluent Concentration from Days 7 to 21
0.0972 Compound exceeds GA or McDonogh GWPS

The influent for Control column 1 had no detectable antimony, chromium, or selenium. Trace levels (0.001 or less) of arsenic, mercury, molybdenum, lead, and thallium were detected at some time points. Low levels (0.001 to 0.010 mg/L) of beryllium and cadmium were detected. Beryllium exceeded the GA GWPS from days 1 to 25 and was not detected on Days 32 and 39. The percent removal of beryllium for days 32 and 39 relative to days 7 through 25 ranged from -42.0% to >83.2%. Moderate levels (0.01 to 0.1 mg/L) of barium were detected. The following metals ranged between 0.1 and 1.0 mg/L: boron, cobalt, iron, and lithium. Boron ranged between 0.491 and 0.692 mg/L but never exceeded the GA GWPS of 4.0 mg/L. The percent removal for boron from the previous Day 7 sampling event of the influent ranged from -14.0 to 15.6%. Cobalt fell from a maximum of 0.399 mg/L on Day 14 to 0.135 mg/L on Day 39 but remained above the McDonough GWPS. The cobalt percent removal from the previous Day 7 sampling event for the influent ranged from -27.1 to 47.6% (between Days 25 and 32). Lithium exceeded the GA GWPS of 0.040 mg/L through Day 25 but was not detected during the recirculation phase from Days 32 to 39. The percent removal for lithium from the previous Day 7 sampling event ranged from -4.9 to >89.0% (between Days 25 and 32) with no lithium detected in the influent from Days 32 to 39. Calcium ranged from 57.4 to 65.0 mg/L. The TDS ranged from 320 to 498 mg/L. The pH measured by ELLE ranged from 3.95 to 6.98 SU. Chloride was generally low between 6.4 to 10.7 mg/L. Fluoride was only detected on Day 7. Sulfate ranged from 251 to 308 mg/L.

The Control column 1 effluent had no detectable antimony, arsenic, or selenium. Trace levels (0.001 or less) of beryllium, cadmium, mercury, lead, and thallium were detected at some time points. Low levels of beryllium, below the GA GWPS, were detected in the effluent of the Control Column 1 with percent removals of 95.3 to 97.2%. Moderate levels (0.001 to 0.1 mg/L) of barium, chromium, and molybdenum were detected periodically. The following metals ranged between 0.1 and 1.0 mg/L: boron and cobalt. Boron ranged between 0.443 and 0.587 mg/L but never exceeded the GA GWPS of 4.0 mg/L. The percent removal for boron from the previous day 7 sampling event in the influent ranged from -10.0 to 31.5%. Cobalt fell from 0.195 mg/L on Day 7 to 0.120 mg/L on Day 39 and remained above the McDonough GWPS. The percent removal for cobalt from the previous day 7 sampling event of the influent ranged from 22.1 to 65.4% (between Days 7 and 14) with an average of 45.5%. Cobalt was removed during passage through the control column. Lithium in the column 1 effluent never exceeded the GA GWPS of 0.040 mg/L with only a low detection of 0.0128 mg/L on Day 25. The percent removal for lithium from the previous sampling event ranged from -86.8 to >89.0% (between Days 14 and 21). Dissolved iron was as high as 2.68 mg/L. Calcium ranged from 53.7 to 67.6 mg/L. The TDS ranged from 388 to 795 mg/L. The pH measured by ELLE ranged from 6.10 to 6.54 SU. Chloride was generally low between 6.8 to 15.9 mg/L. Fluoride was not detected. Sulfate ranged from 265 to 394 mg/L.

The Potassium Bicarbonate Column 2 influent was analyzed on Days 7 and 21. The effluent from Days 0-21 was recirculated from Days 25 to 39 and the average concentrations of dissolved metals from Days 7 and 21 in the effluent are shown (highlighted in green). From Days 22 to 25, 57.3 g of ADA Carbon in 1.25 L groundwater was pumped through the column. The influent had no detectable antimony or chromium. Trace levels (0.001 mg/L or less) of mercury, lead, selenium, and thallium were detected at some time points. Moderate levels (0.001 to 0.1 mg/L) of arsenic, barium, beryllium, cadmium, and molybdenum were detected. Beryllium ranged from 0.00156 to 0.00767 mg/L which exceeded the GA GWPS of 0.004 mg/L only on Day 1. The percent removal for beryllium from the previous day 7 sampling event in the Column 2 influent ranged from 0 to 97.6%.

Boron ranged from 0.462 to 0.725 mg/L but never exceeded the GA GWPS of 4.0 mg/L. The percent removal for boron from the previous day 7 sampling event in the Column 2 influent ranged from -19.4 to 25.2%. Cobalt fell from 0.273 mg/L on Day 7 to 0.262 mg/L on Day 21 and averaged 0.0787 mg/L during the recirculation phase with ADA Carbon. The cobalt decreased in the Column 2 $KHCO_3$ influent from the previous sampling point by 0 to 69.9% during recirculation with the ADA Carbon. Lithium exceeded the GA GWPS of 0.040 mg/L on Day 7 and 21 but was below the standard during the recirculation phase and while ADA Carbon was being injected. The percent removal for lithium from the previous sampling event for the Column 2 $KHCO_3$ influent ranged from -6.5 to 95.9%. Dissolved iron was low, 0.0083 to 0.0484 mg/L. Calcium ranged from 56.3 to 61.2 mg/L from Days 7 to 21 but increased to 103 mg/L during the recirculation phase. The TDS was not measured. The pH measured by ELLE was 8.22 SU, chloride was 6. A concentration of 9 mg/L, fluoride was detected at 0.5 mg/L, and sulfate was 277 mg/L on Day 21.

The $KHCO_3$ column 2 effluent had no detectable antimony. Trace levels (0.0010 or less) of beryllium, cadmium, mercury, lead, selenium, and thallium were detected at some time points. Moderate levels (0.001 to 0.1 mg/L) of arsenic, barium, chromium, and molybdenum were detected. Beryllium was only detected in the effluent of the $KHCO_3$ column on day 21 with percent removals of 92.8 to >98.4%. Boron ranged from 0.438 to 0.467 mg/L but never exceeded the GA GWPS of 4.0 mg/L. The percent removal for boron from the previous sampling event in the Column 2 influent ranged from -1.1 to 37.7%. Cobalt fell from 0.104 mg/L on Day 7 to 0.0435 mg/L on Day 21 and ultimately to 0.0231 mg/L on Day 39 which was below the McDonough GWPS. There was 68.4 to 83.4% removal of cobalt from the $KHCO_3$ column influent concentrations from Days 1 to 21 and 55.0 to 70.7% removal of cobalt from Days 25 to 39 during recirculation and ADA Carbon additions compared to the influent. Lithium never exceeded the GA GWPS of 0.040 mg/L in the effluent from the $KHCO_3$ Column 2 and was only detected at 0.0121 mg/L on Day 14 with percent removals of 87.5 to >87.9%. The dissolved iron was as high as 2.41 mg/L on Day 32. Calcium ranged from 82.3 to 114 mg/L. The TDS ranged from 507 to 853 mg/L. The pH measured by ELLE ranged from 6.80 to 7.53 SU. Chloride was generally low at 7.2 to 12.9 mg/L. Fluoride was not detected. Sulfate ranged from 270 to 374 mg/L.

The Ferrous Sulfate Heptahydrate column 3 influent was analyzed on Day 7 only. From Day 7 to 21, unamended groundwater was used (influent). From Days 22 to 25, 57.3 g of ADA Carbon in 0.91 g groundwater was pumped through the column. The effluent from Days 0-21 was recirculated from Days 25 to 39 with the ADA Carbon additions and the average concentrations of dissolved metals from Days 7 and 21 in the effluent are shown (highlighted in green). There was no detectable antimony, chromium, lead, or thallium. Trace levels (0.001 mg/L or less) of arsenic, beryllium, cadmium, mercury, and selenium were detected at some time points. Beryllium was present at 0.000064 mg/L in the influent from Days 25 to 39. Barium ranged from 0.0024 to 0.0211 mg/L. Boron ranged from 0.512 to 0.590 mg/L but never exceeded the GA GWPS of 4.0 mg/L. The percent removal for boron from the previous day 7 sampling event in the FeSO4 Column 3 influent ranged from -4.3 to 21.3%. Cobalt was 0.00852 mg/L on Day 7 and averaged 0.0744 mg/L during the recirculation and ADA Carbon phase. The cobalt decreased in the influent by 97.4% on Day 7 and between 0 to 74.4% during recirculation and ADA Carbon phase. Lithium exceeded the GA GWPS of 0.040 mg/L on Day 7 but was not present in the combined influent during the recirculation phase with ADA Carbon. The percent removal for lithium from the previous sampling event ranged from -6.8 to >88.7%. Dissolved iron was low between 0.107 to 0.125 mg/L. Calcium

ranged from 21.7 mg/L on Day 7 to 59.2 mg/L during the recirculation phase. The TDS was not measured.

The FeSO4 column 3 effluent had no detectable antimony, lead, or thallium. Trace levels (0.001 or less) of arsenic, beryllium, cadmium, mercury, and selenium were detected at some time points. The maximum chromium concentration was 0.00149 mg/L. Molybdenum ranged from 0.000801 to 0.00622 mg/L. Barium was less than 0.0388 mg/L. Beryllium was only detected in the effluent at 0.000193 mg/L on Day 21 with percent removals of >-62.2 to >98.4. Boron ranged from 0.465 to 0.570 mg/L but never exceeded the GA GWPS of 4.0 mg/L. The percent removal for boron from the previous sampling event in the Column 3 influent ranged from 3.6 to 22.7%. Cobalt fell from 0.107 mg/L on Day 7 to 0.0432 mg/L on Day 21 and ultimately to 0.0291 mg/L on Day 39 but remained above the McDonough GWPS. There was -756.8 to 89.2% removal of cobalt from the influent concentrations from Days 1 to 21 and 57.5 to 87.1% removal of cobalt from Days 25 to 39 during recirculation and ADA Carbon additions compared to the influent. Lithium was not detected in the effluent from the FeSO4 Column 3. The dissolved iron was as high as 0.244 mg/L. Calcium ranged from 39.0 to 75.9 mg/L. The TDS ranged from 370 to 1,070 mg/L. The pH measured by ELLE ranged from 6.58 to 7.26 SU. Chloride was generally low between 6.8 to 14.8 mg/L. Fluoride was only detected once. Sulfate decreased from 656 mg/L on Day 7 to 398 mg/L on Day 21 and ranged from 261 to 356 mg/L during recirculation and ADA Carbon addition phase.

The ADA Carbon column 4 effluent had no detectable antimony, selenium, or thallium. Trace levels (0.001 or less) of beryllium, cadmium, and mercury were detected at some time points. Beryllium was detected at 0.00165 to 0.000178 mg/L on Day 14 and 21 but was not detected from Days 25 to 39. The beryllium percent removal ranged from 97.1 to >98.5%. Molybdenum ranged from <0.00013 to 0.00896 mg/L. An elevated chromium concentration of 0.175 mg/L was found on Day 25, but chromium was low the remainder of the time. Barium ranged from 0.0179 mg/L up to 0.23 mg/L which was much higher from Days 25 to 32 than the influent (0.0206 to 0.0210 mg/L). Boron ranged from 0.347 to 0.505 mg/L but never exceeded the GA GWPS of 4.0 mg/L. The percent removal for boron from the previous sampling event in the Column 4 influent ranged from -7.2 to 46.7%. Cobalt fell from 0.108 mg/L on Day 7 to 0.0957 mg/L on Day 21 and ultimately to 0.0206 mg/L on Day 32 and 0.0239 mg/L on Day 39, below the McDonough GWPS. There was 62.7 to 76.0% removal of cobalt from the influent concentrations from Days 1 to 21 and 77.6 to 89.9% removal of cobalt from Days 25 to 39 during recirculation and ADA Carbon additions compared to the influent. Lithium was not detected above the GA GWPS in the effluent from the ADA Column 4. The dissolved iron was as high as 1.97 mg/L. Calcium ranged from 40.8 to 79.2 mg/L. The TDS ranged from 341 to 1,070 mg/L. The pH measured by ELLE ranged from 6.3 to 7.20 SU. Chloride was generally low between 6.017 to 14.8 mg/L. Fluoride was detected twice. Sulfate decreased from 656 mg/L on Day 7 to 628 mg/L on Day 21 and ranged from 260 to 298 mg/L during recirculation.

5.0 CONCLUSIONS

The following conclusions can be reached from these studies for each metal of concern:

- Arsenic. Exceeded the GA GWPS of 0.010 only in the DGWC-69 groundwater. In the DGWC-69 batch tests, all treatments with ferrous sulfate heptahydrate and the control decreased arsenic to below the GA GWPS. Arsenic was not found above the GA GWPS in the DGWC-48 batch treatments or column studies.

- Beryllium. The GA GWPS is 0.004 mg/L which was exceeded in the DGWC-48 groundwater (0.00767 mg/L). In the batch tests with the ADA Carbon II at loadings of 10 to 40 g/L, beryllium was reduced to below the GA GWPS. Beryllium was treated below the GA GWPS in the preliminary ADA Carbon column and in control, $KHCO_3$, Ferrous Sulfate Heptahydrate, and ADA columns.
- Boron. Neither the DGWC-48 or DGWC-69 groundwaters exceeded GA GWPS of 4 mg/L. The treatments with ferrous sulfate heptahydrate with and without the sodium bicarbonate and the DGWC-48 batch studies and the DGWC-69 batch studies had limited impact on boron concentrations. The highest loading of 40 g/L ADA Carbon II reduced boron by 82.2%. The preliminary column study with the ADA Carbon II showed 46.7% reduction in B. In the DGWC-48 column studies, 36.7% or less of the B was removed with the Control, Potassium Bicarbonate, or Ferrous Sulfate Heptahydrate Column with a maximum of 46.7% with the ADA Carbon Column.
- Cobalt. The ferrous sulfate reagent contained cobalt which resulted in cobalt exceeding the McDonough GWPS of 0.024 mg/L in the DGWC-69 batch tests. The batch studies with the ADA Carbon II reduced cobalt by up 88.0% at the highest 40 g/L loading but still above the GA GWPS although another test with 10 g/L ADA Carbon II showed Cobalt adsorption to a concentration of 0.000164 mg/L. The preliminary column with ADA Carbon reduced cobalt by 63.2% but it remained above the McDonough GWPS. There was 22.1 to 65.4% reduction of cobalt in the control column, 55.0 to 83.4% with potassium bicarbonate, and 57.5 to 89.2% with the ferrous sulfate heptahydrate column (excluding the Day 14 result when there was treatment in the influent), and 67.2 to 89.9% with the 73.g/L loading of ADA carbon. Only the KHCO3 and ADA carbon columns reduced cobalt to below the McDonough GWPS.
- Molybdenum. The DGWC-69 groundwater had 0.107 mg/L molybdenum, above the GA GWPS of 0.10 mg/L. The 1-10 g/L ferrous sulfate heptahydrate and the 1-10 g/L ferrous sulfate heptahydrate with 1-10 g/L sodium bicarbonate all reduced molybdenum to below the GA GWPS. Only low levels of molybdenum were found in the DGWC-48 groundwater and the GA GWPS was never exceeded.
- Lithium. The DGWC-69 groundwater did not contain lithium. The DGWC-48 groundwater had 0.091 mg/L lithium, above the GA GWPS of 0.040 mg/L. The batch treatments with 25 and 40 g/L ADA Carbon II reduced Lithium to below the GA GWPS but the 10 g/L loading did not. In the preliminary column study with ADA Carbon II, lithium was reduced to below the standard. In the full column studies, the control, $KHCO_3$, $FeSO_4$, and ADA Carbon columns all showed complete or nearly complete treatment of lithium.

Please let me know if you have any questions about this final report.

Sincerely,
TERRA SYSTEMS

Michael D Lee, PhD.

Michael D. Lee, Ph.D.
Vice-President Research and Development

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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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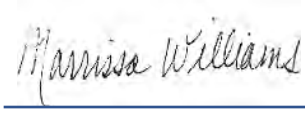

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 8
QC Sample Results 10
QC Association Summary 13
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 20

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-152142-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-152142-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/21/2023 6:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1 DGWC-48 IC
Lab Sample ID: 410-152142-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.478	J	1.00	0.450	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	273		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.21	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.607		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0910		0.0500	0.0110	mg/L	1		6010D	Dissolved
Arsenic	0.000697	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0245		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00767		0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00263		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	65.1		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.329		0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000735		0.000500	0.000120	mg/L	1		6020B	Dissolved
Total Dissolved Solids	398		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	4.45	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	20.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1 DGWC-69 IC
Lab Sample ID: 410-152142-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.37	J	7.50	2.50	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	5.36	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.0436	J	0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.0265		0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0495		0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	9.80		0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.000764	J	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.000238	J	0.000500	0.000156	mg/L	1		6020B	Dissolved
Molybdenum	0.00651		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	93.5		30.0	12.0	mg/L	1		2540C - 2015	Total/NA
pH	6.65	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.5	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-1 DGWC-48 IC
Lab Sample ID: 410-152142-1
Date Collected: 11/21/23 08:00
Matrix: Water
Date Received: 11/21/23 18:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.478**	**J**	1.00	0.450	mg/L			12/12/23 07:17	5
Sulfate	**273**		75.0	25.0	mg/L			12/12/23 07:29	50
Chloride	**6.21**	**J**	7.50	3.00	mg/L			12/12/23 07:17	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.607**		0.0500	0.0120	mg/L		11/30/23 08:59	12/02/23 04:09	1
Lithium	**0.0910**		0.0500	0.0110	mg/L		11/30/23 08:59	12/02/23 04:09	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		11/30/23 08:59	12/02/23 22:00	1
Arsenic	**0.000697**	**J**	0.00200	0.000680	mg/L		11/30/23 08:59	12/02/23 22:00	1
Barium	**0.0245**		0.00200	0.000746	mg/L		11/30/23 08:59	12/02/23 22:00	1
Beryllium	**0.00767**		0.000500	0.000119	mg/L		11/30/23 08:59	12/02/23 22:00	1
Cadmium	**0.00263**		0.000500	0.000151	mg/L		11/30/23 08:59	12/02/23 22:00	1
Calcium	**65.1**		0.120	0.0500	mg/L		11/30/23 08:59	12/02/23 22:00	1
Chromium	<0.000550		0.00200	0.000550	mg/L		11/30/23 08:59	12/02/23 22:00	1
Cobalt	**0.329**		0.000500	0.000156	mg/L		11/30/23 08:59	12/02/23 22:00	1
Lead	**0.000735**		0.000500	0.000120	mg/L		11/30/23 08:59	12/02/23 22:00	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		11/30/23 08:59	12/02/23 22:00	1
Selenium	<0.000278		0.00100	0.000278	mg/L		11/30/23 08:59	12/02/23 22:00	1
Thallium	<0.000130		0.000500	0.000130	mg/L		11/30/23 08:59	12/02/23 22:00	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/01/23 00:24	12/05/23 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**398**		60.0	24.0	mg/L			11/28/23 19:05	1
pH (SW846 9040C)	**4.45**	**HF**	0.0100	0.0100	S.U.			11/29/23 21:34	1
Temperature (SW846 9040C)	**20.8**	**HF**	0.0100	0.0100	Degrees C			11/29/23 21:34	1

Client Sample ID: AP-1 DGWC-69 IC
Lab Sample ID: 410-152142-2
Date Collected: 11/21/23 08:15
Matrix: Water
Date Received: 11/21/23 18:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			12/12/23 07:41	5
Sulfate	**7.37**	**J**	7.50	2.50	mg/L			12/12/23 07:41	5
Chloride	**5.36**	**J**	7.50	3.00	mg/L			12/12/23 07:41	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.0436**	**J**	0.0500	0.0120	mg/L		11/30/23 08:59	12/02/23 04:06	1
Lithium	<0.0110		0.0500	0.0110	mg/L		11/30/23 08:59	12/02/23 04:06	1

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1 DGWC-69 IC
Lab Sample ID: 410-152142-2

Date Collected: 11/21/23 08:15
Matrix: Water
Date Received: 11/21/23 18:15

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		11/30/23 08:59	12/02/23 21:56	1
Arsenic	**0.0265**		0.00200	0.000680	mg/L		11/30/23 08:59	12/02/23 21:56	1
Barium	**0.0495**		0.00200	0.000746	mg/L		11/30/23 08:59	12/02/23 21:56	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		11/30/23 08:59	12/02/23 21:56	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		11/30/23 08:59	12/02/23 21:56	1
Calcium	**9.80**		0.120	0.0500	mg/L		11/30/23 08:59	12/02/23 21:56	1
Chromium	**0.000764**	**J**	0.00200	0.000550	mg/L		11/30/23 08:59	12/02/23 21:56	1
Cobalt	**0.000238**	**J**	0.000500	0.000156	mg/L		11/30/23 08:59	12/02/23 21:56	1
Lead	<0.000120		0.000500	0.000120	mg/L		11/30/23 08:59	12/02/23 21:56	1
Molybdenum	**0.00651**		0.000500	0.000130	mg/L		11/30/23 08:59	12/02/23 21:56	1
Selenium	<0.000278		0.00100	0.000278	mg/L		11/30/23 08:59	12/02/23 21:56	1
Thallium	<0.000130		0.000500	0.000130	mg/L		11/30/23 08:59	12/02/23 21:56	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/04/23 11:54	12/05/23 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**93.5**		30.0	12.0	mg/L			11/28/23 19:05	1
pH (SW846 9040C)	**6.65**	**HF**	0.0100	0.0100	S.U.			11/29/23 21:39	1
Temperature (SW846 9040C)	**21.5**	**HF**	0.0100	0.0100	Degrees C			11/29/23 21:39	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-452721/5
Matrix: Water
Analysis Batch: 452721

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			12/11/23 23:00	1
Sulfate	<0.500		1.50	0.500	mg/L			12/11/23 23:00	1
Chloride	<0.600		1.50	0.600	mg/L			12/11/23 23:00	1

Lab Sample ID: LCS 410-452721/3
Matrix: Water
Analysis Batch: 452721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7203		mg/L		96	90 - 110
Sulfate	7.50	8.199		mg/L		109	90 - 110
Chloride	3.00	3.079		mg/L		103	90 - 110

Lab Sample ID: LCSD 410-452721/4
Matrix: Water
Analysis Batch: 452721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7243		mg/L		97	90 - 110	1	20
Sulfate	7.50	8.181		mg/L		109	90 - 110	0	20
Chloride	3.00	3.068		mg/L		102	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-448458/1-A
Matrix: Water
Analysis Batch: 449400

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		11/30/23 08:59	12/02/23 03:29	1
Lithium	<0.0110		0.0500	0.0110	mg/L		11/30/23 08:59	12/02/23 03:29	1

Lab Sample ID: LCS 410-448458/2-A
Matrix: Water
Analysis Batch: 449400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4763		mg/L		95	80 - 120
Lithium	0.500	0.4781		mg/L		96	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-448458/1-A
Matrix: Water
Analysis Batch: 449450

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		11/30/23 08:59	12/02/23 21:38	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		11/30/23 08:59	12/02/23 21:38	1
Barium	<0.000746		0.00200	0.000746	mg/L		11/30/23 08:59	12/02/23 21:38	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-448458/1-A
Matrix: Water
Analysis Batch: 449450

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.000119		0.000500	0.000119	mg/L		11/30/23 08:59	12/02/23 21:38	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		11/30/23 08:59	12/02/23 21:38	1
Calcium	<0.0500		0.120	0.0500	mg/L		11/30/23 08:59	12/02/23 21:38	1
Chromium	<0.000550		0.00200	0.000550	mg/L		11/30/23 08:59	12/02/23 21:38	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		11/30/23 08:59	12/02/23 21:38	1
Lead	<0.000120		0.000500	0.000120	mg/L		11/30/23 08:59	12/02/23 21:38	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		11/30/23 08:59	12/02/23 21:38	1
Selenium	<0.000278		0.00100	0.000278	mg/L		11/30/23 08:59	12/02/23 21:38	1
Thallium	<0.000130		0.000500	0.000130	mg/L		11/30/23 08:59	12/02/23 21:38	1

Lab Sample ID: LCS 410-448458/2-A
Matrix: Water
Analysis Batch: 449450

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.1084		mg/L		108	80 - 120
Arsenic	0.500	0.5311		mg/L		106	85 - 120
Barium	0.500	0.5382		mg/L		108	80 - 120
Beryllium	0.0500	0.05382		mg/L		108	90 - 112
Cadmium	0.0500	0.05380		mg/L		108	86 - 113
Calcium	5.00	5.189		mg/L		104	85 - 120
Chromium	0.500	0.5220		mg/L		104	90 - 115
Cobalt	0.500	0.5216		mg/L		104	90 - 113
Lead	0.0500	0.05255		mg/L		105	90 - 115
Molybdenum	0.0500	0.05441		mg/L		109	85 - 115
Selenium	0.100	0.1081		mg/L		108	80 - 120
Thallium	0.100	0.1044		mg/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-448847/1-A
Matrix: Water
Analysis Batch: 450291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/01/23 00:24	12/05/23 11:44	1

Lab Sample ID: LCS 410-448847/2-A
Matrix: Water
Analysis Batch: 450291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0009557		mg/L		96	80 - 118

Lab Sample ID: MB 410-449820/1-A
Matrix: Water
Analysis Batch: 450291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/04/23 11:54	12/05/23 09:23	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 410-449820/2-A
Matrix: Water
Analysis Batch: 450291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449820

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00100	0.0008813		mg/L		88	80 - 118		

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-447754/1
Matrix: Water
Analysis Batch: 447754

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			11/28/23 19:05	1

Lab Sample ID: LCS 410-447754/2
Matrix: Water
Analysis Batch: 447754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			200	200.0		mg/L		100	90 - 110		

Method: 9040C - pH

Lab Sample ID: LCS 410-448344/2
Matrix: Water
Analysis Batch: 448344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.010		S.U.		100	95 - 105		

Lab Sample ID: LCSD 410-448344/3
Matrix: Water
Analysis Batch: 448344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			7.00	6.990		S.U.		100	95 - 105	0	3

HPLC/IC

Analysis Batch: 452721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Total/NA	Water	EPA 300.0 R2.1	
410-152142-1	AP-1 DGWC-48 IC	Total/NA	Water	EPA 300.0 R2.1	
410-152142-2	AP-1 DGWC-69 IC	Total/NA	Water	EPA 300.0 R2.1	
MB 410-452721/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-452721/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-452721/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 448458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Dissolved	Water	3005A	
410-152142-2	AP-1 DGWC-69 IC	Dissolved	Water	3005A	
MB 410-448458/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-448458/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 448847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Dissolved	Water	7470A	
MB 410-448847/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-448847/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 449400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Dissolved	Water	6010D	448458
410-152142-2	AP-1 DGWC-69 IC	Dissolved	Water	6010D	448458
MB 410-448458/1-A	Method Blank	Total Recoverable	Water	6010D	448458
LCS 410-448458/2-A	Lab Control Sample	Total Recoverable	Water	6010D	448458

Analysis Batch: 449450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Dissolved	Water	6020B	448458
410-152142-2	AP-1 DGWC-69 IC	Dissolved	Water	6020B	448458
MB 410-448458/1-A	Method Blank	Total Recoverable	Water	6020B	448458
LCS 410-448458/2-A	Lab Control Sample	Total Recoverable	Water	6020B	448458

Prep Batch: 449820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-2	AP-1 DGWC-69 IC	Dissolved	Water	7470A	
MB 410-449820/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-449820/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 450291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Dissolved	Water	7470A	448847
410-152142-2	AP-1 DGWC-69 IC	Dissolved	Water	7470A	449820
MB 410-448847/1-A	Method Blank	Total/NA	Water	7470A	448847
MB 410-449820/1-A	Method Blank	Total/NA	Water	7470A	449820
LCS 410-448847/2-A	Lab Control Sample	Total/NA	Water	7470A	448847
LCS 410-449820/2-A	Lab Control Sample	Total/NA	Water	7470A	449820

QC Association Summary

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

General Chemistry

Analysis Batch: 447754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Total/NA	Water	2540C - 2015	
410-152142-2	AP-1 DGWC-69 IC	Total/NA	Water	2540C - 2015	
MB 410-447754/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-447754/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 448344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152142-1	AP-1 DGWC-48 IC	Total/NA	Water	9040C	
410-152142-2	AP-1 DGWC-69 IC	Total/NA	Water	9040C	
LCS 410-448344/2	Lab Control Sample	Total/NA	Water	9040C	
LCSD 410-448344/3	Lab Control Sample Dup	Total/NA	Water	9040C	

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1 DGWC-48 IC
Lab Sample ID: 410-152142-1
Date Collected: 11/21/23 08:00
Matrix: Water
Date Received: 11/21/23 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	452721	W7FX	ELLE	12/12/23 07:17
Total/NA	Analysis	EPA 300.0 R2.1		50	452721	W7FX	ELLE	12/12/23 07:29
Dissolved	Prep	3005A			448458	UAMX	ELLE	11/30/23 08:59
Dissolved	Analysis	6010D		1	449400	MT26	ELLE	12/02/23 04:09
Dissolved	Prep	3005A			448458	UAMX	ELLE	11/30/23 08:59
Dissolved	Analysis	6020B		1	449450	S4PD	ELLE	12/02/23 22:00
Dissolved	Prep	7470A			448847	NU9R	ELLE	12/01/23 00:24
Dissolved	Analysis	7470A		1	450291	UEFS	ELLE	12/05/23 12:49
Total/NA	Analysis	2540C - 2015		1	447754	UOCA	ELLE	11/28/23 19:05 - 11/30/23 07:45 [1]
Total/NA	Analysis	9040C		1	448344	DI9Q	ELLE	11/29/23 21:34

Client Sample ID: AP-1 DGWC-69 IC
Lab Sample ID: 410-152142-2
Date Collected: 11/21/23 08:15
Matrix: Water
Date Received: 11/21/23 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	452721	W7FX	ELLE	12/12/23 07:41
Dissolved	Prep	3005A			448458	UAMX	ELLE	11/30/23 08:59
Dissolved	Analysis	6010D		1	449400	MT26	ELLE	12/02/23 04:06
Dissolved	Prep	3005A			448458	UAMX	ELLE	11/30/23 08:59
Dissolved	Analysis	6020B		1	449450	S4PD	ELLE	12/02/23 21:56
Dissolved	Prep	7470A			449820	UAMX	ELLE	12/04/23 11:54
Dissolved	Analysis	7470A		1	450291	UEFS	ELLE	12/05/23 10:20
Total/NA	Analysis	2540C - 2015		1	447754	UOCA	ELLE	11/28/23 19:05 - 11/30/23 07:45 [1]
Total/NA	Analysis	9040C		1	448344	DI9Q	ELLE	11/29/23 21:39

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Georgia (DW)	State	C048	01-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C - 2015		Water	Total Dissolved Solids
6010D	3005A	Water	Boron
6010D	3005A	Water	Lithium
6020B	3005A	Water	Antimony
6020B	3005A	Water	Arsenic
6020B	3005A	Water	Barium
6020B	3005A	Water	Beryllium
6020B	3005A	Water	Cadmium
6020B	3005A	Water	Calcium
6020B	3005A	Water	Chromium
6020B	3005A	Water	Cobalt
6020B	3005A	Water	Lead
6020B	3005A	Water	Molybdenum
6020B	3005A	Water	Selenium
6020B	3005A	Water	Thallium
7470A	7470A	Water	Mercury
9040C		Water	pH
9040C		Water	Temperature
EPA 300.0 R2.1		Water	Chloride
EPA 300.0 R2.1		Water	Fluoride
EPA 300.0 R2.1		Water	Sulfate

Method Summary

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-152142-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-152142-1	AP-1 DGWC-48 IC	Water	11/21/23 08:00	11/21/23 18:15
410-152142-2	AP-1 DGWC-69 IC	Water	11/21/23 08:15	11/21/23 18:15

Envi[illegible] s Request/Chain of Custody

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410-152142 Chain of Custody

Sample # _____

Client:	Terra Systems, Inc.		
Project Name/#:	WSP Plant McDonough CCR TS III	Site ID #:	Srymna, GA
Project Manager:	Michael D. Lee	P.O. #:	232720 11-21-23
Sampler:	Michael D. Lee	PWSID #:	
Phone #:	302-798-9553	Quote #:	41016315
State where samples were collected:	___ GA	For Compliance:	Yes ☐ No ☑

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil/Sediment/Tissue	Matrix: Water (Potable/Ground/NPDES/Surface)	Matrix: Other:	Total # of Containers	Analyses Requested: Dis As, Ba, Be, Bo, Ca, Cd,	Co, Cr, Hg, Li, Mo, Pb, Sb,	Se, Tl (field filtered)	SO4, Fl, Cl	Total Dissolved Solids & pH	Remarks
Preservation Codes									N	N	N	-	-	
AP-1 DGWC-48 IC	11/21/2023	8:00		X		X		3	X	X	X	X	X	
AP-1 DGWC-69 IC	11/21/2023	8:15		X		X		3	X	X	X	X	X	

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 12/5/23

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mlee@terrasystems.net

Phone: 302-798-9553

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: _____

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/21/23	13:20	[signature]	11/21/23	13:20
[signature]	11/21/23	18:15	[signature]		
[signature]			[signature]		
[signature]			[signature]		
[signature]			[signature]	11/21/23	18:15

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt Raw 0.7 Corr 0.5 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-152142-1

Login Number: 152142

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Cyms, Carolyn M

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 12/27/2023 3:53:32 PM

JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-152936-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

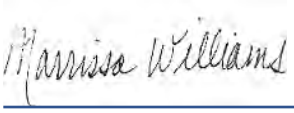
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

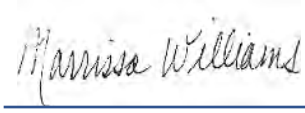

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 9
QC Sample Results 13
QC Association Summary 18
Lab Chronicle 21
Certification Summary 24
Method Summary 26
Sample Summary 27
Chain of Custody 28
Receipt Checklists 30

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3-	Reporting Limit Check Standard is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
e2	Result falls below calibration range
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-152936-1 Eurofins Lancaster Laboratories Environment

Job Narrative
410-152936-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/30/2023 3:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-2-3/4 DGWC-48 Soil IC (410-152936-1). The container labels list sample ID AP-1 DGWC-69 Soil IC, with a collection time of 08:25, while the COC lists AP-1 DGWC-48 Soil IC, with a collection time of 08:10. Entered per COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1 DGWC-69 Soil IC (410-152936-2). The container labels list collection time 08:10, while the COC lists 08:25. Entered per COC.

HPLC/IC
Method 300_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: Potassium Bicarbonate (410-152936-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D: The following sample was diluted due to the nature of the sample matrix: Ferrous Sulfate Heptahydrate (410-152936-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Project/Site: WSP Plant McDonough CCR TS III

Job ID: 410-152936-1

Client Sample ID: AP-2-3/4 DGWC-48 Soil IC — Lab Sample ID: 410-152936-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	8.04		5.17	2.07	mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.47		0.367	0.123	mg/Kg	2		6020B	Total/NA
Barium	47.2		0.367	0.168	mg/Kg	2		6020B	Total/NA
Beryllium	0.873		0.0917	0.0218	mg/Kg	2		6020B	Total/NA
Calcium	1560	^3-	36.7	18.0	mg/Kg	2		6020B	Total/NA
Chromium	7.35		0.367	0.174	mg/Kg	2		6020B	Total/NA
Cobalt	4.07		0.183	0.0734	mg/Kg	2		6020B	Total/NA
Lead	2.70		0.183	0.0697	mg/Kg	2		6020B	Total/NA
Molybdenum	1.03		0.183	0.0844	mg/Kg	2		6020B	Total/NA
Thallium	0.161		0.0917	0.0360	mg/Kg	2		6020B	Total/NA

Client Sample ID: AP-1 DGWC-69 Soil IC — Lab Sample ID: 410-152936-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	20.2		5.38	2.15	mg/Kg	1	☼	6010D	Total/NA
Arsenic	1.40		0.377	0.126	mg/Kg	2		6020B	Total/NA
Barium	131		0.377	0.173	mg/Kg	2		6020B	Total/NA
Beryllium	0.992		0.0943	0.0225	mg/Kg	2		6020B	Total/NA
Cadmium	0.0785	J	0.0943	0.0377	mg/Kg	2		6020B	Total/NA
Calcium	1260	^3-	37.7	18.5	mg/Kg	2		6020B	Total/NA
Chromium	27.9		0.377	0.179	mg/Kg	2		6020B	Total/NA
Cobalt	21.5		0.189	0.0755	mg/Kg	2		6020B	Total/NA
Lead	7.40		0.189	0.0717	mg/Kg	2		6020B	Total/NA
Molybdenum	0.549		0.189	0.0868	mg/Kg	2		6020B	Total/NA
Thallium	0.361		0.0943	0.0370	mg/Kg	2		6020B	Total/NA

Client Sample ID: ADA Carbon Fluxsorb — Lab Sample ID: 410-152936-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.65		7.50	2.50	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.0240	J	0.0500	0.0120	mg/L	1		6010D	Dissolved
Antimony	0.000282	J	0.00100	0.000200	mg/L	1		6020B	Dissolved
Arsenic	0.00234		0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0218		0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	17.9		0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.0103		0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.00218		0.000500	0.000156	mg/L	1		6020B	Dissolved
Molybdenum	0.00942		0.000500	0.000130	mg/L	1		6020B	Dissolved
pH	7.59	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.7	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: Potassium Bicarbonate — Lab Sample ID: 410-152936-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	9.04	J cn	15.0	5.00	mg/L	10		EPA 300.0 R2.1	Total/NA
Arsenic	0.00120	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0307		0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	22.6		0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00145	J	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.000451	J	0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000227	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.000184	J	0.000500	0.000130	mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: Potassium Bicarbonate (Continued) — Lab Sample ID: 410-152936-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.00131		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	67700		6000	2400	mg/L	1		2540C - 2015	Total/NA
pH	8.34	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.2	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: Ferrous Sulfate Heptahydrate — Lab Sample ID: 410-152936-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2760		750	250	mg/L	500		EPA 300.0 R2.1	Total/NA
Barium	0.0343	cn	0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	23.6	cn	0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.0955	^2 cn	0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000135	J cn	0.000500	0.000120	mg/L	1		6020B	Dissolved
Total Dissolved Solids	6550		240	96.0	mg/L	1		2540C - 2015	Total/NA
pH	3.28	HF e2	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-2-3/4 DGWC-48 Soil IC
Lab Sample ID: 410-152936-1
Date Collected: 11/30/23 08:10
Matrix: Solid
Date Received: 11/30/23 15:56

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0734		0.183	0.0734	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Arsenic	**1.47**		0.367	0.123	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Barium	**47.2**		0.367	0.168	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Beryllium	**0.873**		0.0917	0.0218	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Cadmium	<0.0367		0.0917	0.0367	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Calcium	**1560**	**^3-**	36.7	18.0	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Chromium	**7.35**		0.367	0.174	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Cobalt	**4.07**		0.183	0.0734	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Lead	**2.70**		0.183	0.0697	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Molybdenum	**1.03**		0.183	0.0844	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Selenium	<0.0917		0.367	0.0917	mg/Kg		12/01/23 19:57	12/06/23 16:32	2
Thallium	**0.161**		0.0917	0.0360	mg/Kg		12/01/23 19:57	12/06/23 16:32	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.3**		1.0	1.0	%			12/01/23 13:41	1

Client Sample ID: AP-2-3/4 DGWC-48 Soil IC
Lab Sample ID: 410-152936-1
Date Collected: 11/30/23 08:10
Matrix: Solid
Date Received: 11/30/23 15:56
Percent Solids: 88.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<3.10	^+	20.7	3.10	mg/Kg	☼	12/01/23 19:57	12/05/23 03:59	1
Lithium	**8.04**		5.17	2.07	mg/Kg	☼	12/01/23 19:57	12/05/23 03:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0218		0.0655	0.0218	mg/Kg	☼	12/01/23 22:48	12/04/23 09:44	1

Client Sample ID: AP-1 DGWC-69 Soil IC
Lab Sample ID: 410-152936-2
Date Collected: 11/30/23 08:25
Matrix: Solid
Date Received: 11/30/23 15:56

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0755		0.189	0.0755	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Arsenic	**1.40**		0.377	0.126	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Barium	**131**		0.377	0.173	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Beryllium	**0.992**		0.0943	0.0225	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Cadmium	**0.0785**	**J**	0.0943	0.0377	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Calcium	**1260**	**^3-**	37.7	18.5	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Chromium	**27.9**		0.377	0.179	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Cobalt	**21.5**		0.189	0.0755	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Lead	**7.40**		0.189	0.0717	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Molybdenum	**0.549**		0.189	0.0868	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Selenium	<0.0943		0.377	0.0943	mg/Kg		12/01/23 19:57	12/06/23 16:36	2
Thallium	**0.361**		0.0943	0.0370	mg/Kg		12/01/23 19:57	12/06/23 16:36	2

Client Sample ID: AP-1 DGWC-69 Soil IC
Lab Sample ID: 410-152936-2
Date Collected: 11/30/23 08:25
Matrix: Solid
Date Received: 11/30/23 15:56

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.2**		1.0	1.0	%			12/01/23 13:41	1

Client Sample ID: AP-1 DGWC-69 Soil IC
Lab Sample ID: 410-152936-2
Date Collected: 11/30/23 08:25
Matrix: Solid
Date Received: 11/30/23 15:56
Percent Solids: 87.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<3.23		21.5	3.23	mg/Kg	☼	12/01/23 19:57	12/05/23 20:00	1
Lithium	**20.2**		5.38	2.15	mg/Kg	☼	12/01/23 19:57	12/05/23 04:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0217		0.0651	0.0217	mg/Kg	☼	12/01/23 22:48	12/04/23 09:45	1

Client Sample ID: ADA Carbon Fluxsorb
Lab Sample ID: 410-152936-3
Date Collected: 11/30/23 08:00
Matrix: Water
Date Received: 11/30/23 15:56

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			12/19/23 19:40	5
Sulfate	**7.65**		7.50	2.50	mg/L			12/19/23 19:40	5
Chloride	<3.00		7.50	3.00	mg/L			12/19/23 19:40	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.0240**	**J**	0.0500	0.0120	mg/L		12/06/23 18:23	12/08/23 22:10	1
Lithium	<0.0110		0.0500	0.0110	mg/L		12/06/23 18:23	12/08/23 22:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.000282**	**J**	0.00100	0.000200	mg/L		12/06/23 18:23	12/13/23 15:56	1
Arsenic	**0.00234**		0.00200	0.000680	mg/L		12/06/23 18:23	12/13/23 15:56	1
Barium	**0.0218**		0.00200	0.000746	mg/L		12/06/23 18:23	12/13/23 15:56	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		12/06/23 18:23	12/13/23 15:56	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		12/06/23 18:23	12/13/23 15:56	1
Calcium	**17.9**		0.120	0.0500	mg/L		12/06/23 18:23	12/13/23 16:31	1
Chromium	**0.0103**		0.00200	0.000550	mg/L		12/06/23 18:23	12/13/23 16:31	1
Cobalt	**0.00218**		0.000500	0.000156	mg/L		12/06/23 18:23	12/14/23 08:37	1
Lead	<0.000120		0.000500	0.000120	mg/L		12/06/23 18:23	12/13/23 15:56	1
Molybdenum	**0.00942**		0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 15:56	1
Selenium	<0.000278		0.00100	0.000278	mg/L		12/06/23 18:23	12/13/23 15:56	1
Thallium	<0.000130		0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 15:56	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/06/23 21:19	12/07/23 09:37	1

Client Sample ID: ADA Carbon Fluxsorb
Lab Sample ID: 410-152936-3
Date Collected: 11/30/23 08:00
Matrix: Water
Date Received: 11/30/23 15:56

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	<1200		3000	1200	mg/L			12/04/23 06:37	1
pH (SW846 9040C)	**7.59**	**HF**	0.0100	0.0100	S.U.			12/06/23 17:55	1
Temperature (SW846 9040C)	**21.7**	**HF**	0.0100	0.0100	Degrees C			12/06/23 17:55	1

Client Sample ID: Potassium Bicarbonate
Lab Sample ID: 410-152936-4
Date Collected: 11/30/23 08:15
Matrix: Water
Date Received: 11/30/23 15:56

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.900	cn	2.00	0.900	mg/L			12/19/23 20:52	10
Sulfate	**9.04**	**J cn**	15.0	5.00	mg/L			12/19/23 20:52	10
Chloride	<6.00	cn	15.0	6.00	mg/L			12/19/23 20:52	10

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		12/06/23 18:23	12/08/23 22:28	1
Lithium	<0.0110		0.0500	0.0110	mg/L		12/06/23 18:23	12/08/23 22:28	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		12/06/23 18:23	12/13/23 16:04	1
Arsenic	**0.00120**	**J**	0.00200	0.000680	mg/L		12/06/23 18:23	12/13/23 16:04	1
Barium	**0.0307**		0.00200	0.000746	mg/L		12/06/23 18:23	12/13/23 16:04	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		12/06/23 18:23	12/13/23 16:04	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		12/06/23 18:23	12/13/23 16:04	1
Calcium	**22.6**		0.120	0.0500	mg/L		12/06/23 18:23	12/13/23 16:39	1
Chromium	**0.00145**	**J**	0.00200	0.000550	mg/L		12/06/23 18:23	12/13/23 16:39	1
Cobalt	**0.000451**	**J**	0.000500	0.000156	mg/L		12/06/23 18:23	12/14/23 08:39	1
Lead	**0.000227**	**J**	0.000500	0.000120	mg/L		12/06/23 18:23	12/13/23 16:04	1
Molybdenum	**0.000184**	**J**	0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 16:04	1
Selenium	<0.000278		0.00100	0.000278	mg/L		12/06/23 18:23	12/13/23 16:04	1
Thallium	**0.00131**		0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 16:04	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/06/23 21:19	12/07/23 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**67700**		6000	2400	mg/L			12/04/23 06:37	1
pH (SW846 9040C)	**8.34**	**HF**	0.0100	0.0100	S.U.			12/06/23 18:04	1
Temperature (SW846 9040C)	**21.2**	**HF**	0.0100	0.0100	Degrees C			12/06/23 18:04	1

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: Ferrous Sulfate Heptahydrate
Lab Sample ID: 410-152936-5

Date Collected: 11/30/23 08:30
Matrix: Water
Date Received: 11/30/23 15:56

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			12/19/23 20:04	5
Sulfate	**2760**		750	250	mg/L			12/23/23 22:04	500
Chloride	<3.00		7.50	3.00	mg/L			12/19/23 20:04	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.120	cn	0.500	0.120	mg/L		12/06/23 18:23	12/15/23 15:03	10
Lithium	<0.0110		0.0500	0.0110	mg/L		12/06/23 18:23	12/15/23 14:47	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200	cn	0.00100	0.000200	mg/L		12/06/23 18:23	12/13/23 16:56	1
Arsenic	<0.000680	cn	0.00200	0.000680	mg/L		12/06/23 18:23	12/13/23 16:56	1
Barium	**0.0343**	**cn**	0.00200	0.000746	mg/L		12/06/23 18:23	12/13/23 16:56	1
Beryllium	<0.000119	cn	0.000500	0.000119	mg/L		12/06/23 18:23	12/13/23 16:56	1
Cadmium	<0.000151	cn	0.000500	0.000151	mg/L		12/06/23 18:23	12/13/23 16:56	1
Calcium	**23.6**	**cn**	0.120	0.0500	mg/L		12/06/23 18:23	12/13/23 16:56	1
Chromium	<0.000550	cn	0.00200	0.000550	mg/L		12/06/23 18:23	12/13/23 16:56	1
Cobalt	**0.0955**	**^2 cn**	0.000500	0.000156	mg/L		12/06/23 18:23	12/13/23 16:56	1
Lead	**0.000135**	**J cn**	0.000500	0.000120	mg/L		12/06/23 18:23	12/13/23 16:56	1
Molybdenum	<0.000130	cn	0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 16:56	1
Selenium	<0.000278	cn	0.00100	0.000278	mg/L		12/06/23 18:23	12/13/23 16:56	1
Thallium	<0.000130	cn	0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 16:56	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/06/23 21:19	12/07/23 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**6550**		240	96.0	mg/L			12/04/23 06:37	1
pH (SW846 9040C)	**3.28**	**HF e2**	0.0100	0.0100	S.U.			12/06/23 18:00	1
Temperature (SW846 9040C)	**21.8**	**HF**	0.0100	0.0100	Degrees C			12/06/23 18:00	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-455860/5
Matrix: Water
Analysis Batch: 455860

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			12/19/23 13:24	1
Sulfate	<0.500		1.50	0.500	mg/L			12/19/23 13:24	1
Chloride	<0.600		1.50	0.600	mg/L			12/19/23 13:24	1

Lab Sample ID: LCS 410-455860/3
Matrix: Water
Analysis Batch: 455860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7040		mg/L		94	90 - 110
Sulfate	7.50	8.046		mg/L		107	90 - 110
Chloride	3.00	3.026		mg/L		101	90 - 110

Lab Sample ID: LCSD 410-455860/4
Matrix: Water
Analysis Batch: 455860

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7087		mg/L		94	90 - 110	1	20
Sulfate	7.50	8.069		mg/L		108	90 - 110	0	20
Chloride	3.00	3.026		mg/L		101	90 - 110	0	20

Lab Sample ID: MB 410-457976/5
Matrix: Water
Analysis Batch: 457976

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			12/23/23 20:19	1
Sulfate	<0.500		1.50	0.500	mg/L			12/23/23 20:19	1
Chloride	<0.600		1.50	0.600	mg/L			12/23/23 20:19	1

Lab Sample ID: LCS 410-457976/3
Matrix: Water
Analysis Batch: 457976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	6.896		mg/L		92	90 - 110
Chloride	3.00	2.785		mg/L		93	90 - 110

Lab Sample ID: LCSD 410-457976/4
Matrix: Water
Analysis Batch: 457976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	6.840		mg/L		91	90 - 110	1	20
Chloride	3.00	2.799		mg/L		93	90 - 110	1	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-449309/1-A
Matrix: Solid
Analysis Batch: 450040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<3.00	^+	20.0	3.00	mg/Kg		12/01/23 19:57	12/05/23 03:29	1
Lithium	<2.00		5.00	2.00	mg/Kg		12/01/23 19:57	12/05/23 03:29	1

Lab Sample ID: LCS 410-449309/2-A
Matrix: Solid
Analysis Batch: 450040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	50.0	49.90		mg/Kg		100	80 - 120

Lab Sample ID: LCS 410-449309/2-A
Matrix: Solid
Analysis Batch: 450517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	50.0	47.95		mg/Kg		96	80 - 120

Lab Sample ID: MB 410-450976/1-A
Matrix: Water
Analysis Batch: 452046

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 450976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		12/06/23 18:23	12/08/23 21:39	1
Lithium	<0.0110		0.0500	0.0110	mg/L		12/06/23 18:23	12/08/23 21:39	1

Lab Sample ID: MB 410-450976/1-A
Matrix: Water
Analysis Batch: 454833

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 450976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		12/06/23 18:23	12/15/23 14:41	1
Lithium	<0.0110		0.0500	0.0110	mg/L		12/06/23 18:23	12/15/23 14:41	1

Lab Sample ID: LCS 410-450976/2-A
Matrix: Water
Analysis Batch: 452046

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 450976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4490		mg/L		90	80 - 120
Lithium	0.500	0.4698		mg/L		94	80 - 120

Lab Sample ID: LCS 410-450976/2-A
Matrix: Water
Analysis Batch: 454833

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 450976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4873		mg/L		97	80 - 120
Lithium	0.500	0.4811		mg/L		96	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-449309/1-A ^2
Matrix: Solid
Analysis Batch: 451025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0800		0.200	0.0800	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Arsenic	<0.134		0.400	0.134	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Barium	<0.183		0.400	0.183	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Beryllium	<0.0238		0.100	0.0238	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Cadmium	<0.0400		0.100	0.0400	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Calcium	<19.6	^3-	40.0	19.6	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Chromium	<0.190		0.400	0.190	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Cobalt	<0.0800		0.200	0.0800	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Lead	<0.0760		0.200	0.0760	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Molybdenum	<0.0920		0.200	0.0920	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Selenium	<0.100		0.400	0.100	mg/Kg		12/01/23 19:57	12/06/23 14:37	2
Thallium	<0.0392		0.100	0.0392	mg/Kg		12/01/23 19:57	12/06/23 14:37	2

Lab Sample ID: LCS 410-449309/2-A ^2
Matrix: Solid
Analysis Batch: 451025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.18		mg/Kg		102	80 - 120
Arsenic	50.0	49.25		mg/Kg		99	80 - 120
Barium	50.0	49.51		mg/Kg		99	80 - 120
Beryllium	5.00	4.534		mg/Kg		91	80 - 120
Cadmium	5.00	4.996		mg/Kg		100	80 - 120
Calcium	500	484.3	^3-	mg/Kg		97	80 - 120
Chromium	50.0	49.51		mg/Kg		99	80 - 120
Cobalt	50.0	49.36		mg/Kg		99	80 - 120
Lead	5.00	5.111		mg/Kg		102	80 - 120
Molybdenum	5.00	5.117		mg/Kg		102	80 - 120
Selenium	10.0	9.757		mg/Kg		98	80 - 120
Thallium	10.0	9.982		mg/Kg		100	80 - 120

Lab Sample ID: MB 410-450976/1-A
Matrix: Water
Analysis Batch: 453805

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 450976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		12/06/23 18:23	12/13/23 14:58	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		12/06/23 18:23	12/13/23 14:58	1
Barium	<0.000746		0.00200	0.000746	mg/L		12/06/23 18:23	12/13/23 14:58	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		12/06/23 18:23	12/13/23 14:58	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		12/06/23 18:23	12/13/23 14:58	1
Calcium	<0.0500		0.120	0.0500	mg/L		12/06/23 18:23	12/13/23 14:58	1
Chromium	<0.000550		0.00200	0.000550	mg/L		12/06/23 18:23	12/13/23 14:58	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		12/06/23 18:23	12/13/23 14:58	1
Lead	<0.000120		0.000500	0.000120	mg/L		12/06/23 18:23	12/13/23 14:58	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 14:58	1
Selenium	<0.000278		0.00100	0.000278	mg/L		12/06/23 18:23	12/13/23 14:58	1
Thallium	<0.000130		0.000500	0.000130	mg/L		12/06/23 18:23	12/13/23 14:58	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-450976/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 453805
Prep Batch: 450976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09860		mg/L		99	80 - 120
Arsenic	0.500	0.4968		mg/L		99	85 - 120
Barium	0.500	0.5006		mg/L		100	80 - 120
Beryllium	0.0500	0.04998		mg/L		100	90 - 112
Cadmium	0.0500	0.05056		mg/L		101	86 - 113
Calcium	5.00	5.110		mg/L		102	85 - 120
Chromium	0.500	0.5102		mg/L		102	90 - 115
Cobalt	0.500	0.5165		mg/L		103	90 - 113
Lead	0.0500	0.04978		mg/L		100	90 - 115
Molybdenum	0.0500	0.05165		mg/L		103	85 - 115
Selenium	0.100	0.09770		mg/L		98	80 - 120
Thallium	0.100	0.09724		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-451030/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 451235
Prep Batch: 451030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		12/06/23 21:19	12/07/23 09:23	1

Lab Sample ID: LCS 410-451030/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 451235
Prep Batch: 451030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0009157		mg/L		92	80 - 118

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-449339/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 449812
Prep Batch: 449339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0200		0.0600	0.0200	mg/Kg		12/01/23 22:48	12/04/23 09:27	1

Lab Sample ID: LCS 410-449339/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 449812
Prep Batch: 449339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.1817		mg/Kg		109	80 - 120

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-449523/1
Matrix: Water
Analysis Batch: 449523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			12/04/23 06:37	1

Lab Sample ID: LCS 410-449523/2
Matrix: Water
Analysis Batch: 449523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	193.0		mg/L		97	90 - 110

Lab Sample ID: 410-152936-5 DU
Matrix: Water
Analysis Batch: 449523

Client Sample ID: Ferrous Sulfate Heptahydrate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	6550		6428		mg/L		2	10

Method: 9040C - pH

Lab Sample ID: LCS 410-451259/3
Matrix: Water
Analysis Batch: 451259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.010		S.U.		100	95 - 105

Lab Sample ID: LCSD 410-451259/4
Matrix: Water
Analysis Batch: 451259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	7.00	7.000		S.U.		100	95 - 105	0	3

HPLC/IC

Analysis Batch: 455860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Total/NA	Water	EPA 300.0 R2.1	
410-152936-4	Potassium Bicarbonate	Total/NA	Water	EPA 300.0 R2.1	
410-152936-5	Ferrous Sulfate Heptahydrate	Total/NA	Water	EPA 300.0 R2.1	
MB 410-455860/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-455860/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-455860/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 457976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-5	Ferrous Sulfate Heptahydrate	Total/NA	Water	EPA 300.0 R2.1	
MB 410-457976/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-457976/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-457976/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 449309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-1	AP-2-3/4 DGWC-48 Soil IC	Total/NA	Solid	3050B	
410-152936-2	AP-1 DGWC-69 Soil IC	Total/NA	Solid	3050B	
MB 410-449309/1-A	Method Blank	Total/NA	Solid	3050B	
MB 410-449309/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-449309/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 410-449309/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 449339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-1	AP-2-3/4 DGWC-48 Soil IC	Total/NA	Solid	7471B	
410-152936-2	AP-1 DGWC-69 Soil IC	Total/NA	Solid	7471B	
MB 410-449339/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 410-449339/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 449812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-1	AP-2-3/4 DGWC-48 Soil IC	Total/NA	Solid	7471B	449339
410-152936-2	AP-1 DGWC-69 Soil IC	Total/NA	Solid	7471B	449339
MB 410-449339/1-A	Method Blank	Total/NA	Solid	7471B	449339
LCS 410-449339/2-A	Lab Control Sample	Total/NA	Solid	7471B	449339

Analysis Batch: 450040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-1	AP-2-3/4 DGWC-48 Soil IC	Total/NA	Solid	6010D	449309
410-152936-2	AP-1 DGWC-69 Soil IC	Total/NA	Solid	6010D	449309
MB 410-449309/1-A	Method Blank	Total/NA	Solid	6010D	449309
LCS 410-449309/2-A	Lab Control Sample	Total/NA	Solid	6010D	449309

Analysis Batch: 450517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-2	AP-1 DGWC-69 Soil IC	Total/NA	Solid	6010D	449309
LCS 410-449309/2-A	Lab Control Sample	Total/NA	Solid	6010D	449309

Metals

Prep Batch: 450976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Dissolved	Water	3005A	
410-152936-4	Potassium Bicarbonate	Dissolved	Water	3005A	
410-152936-5	Ferrous Sulfate Heptahydrate	Dissolved	Water	3005A	
MB 410-450976/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-450976/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 451025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-1	AP-2-3/4 DGWC-48 Soil IC	Total/NA	Solid	6020B	449309
410-152936-2	AP-1 DGWC-69 Soil IC	Total/NA	Solid	6020B	449309
MB 410-449309/1-A ^2	Method Blank	Total/NA	Solid	6020B	449309
LCS 410-449309/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	449309

Prep Batch: 451030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Dissolved	Water	7470A	
410-152936-4	Potassium Bicarbonate	Dissolved	Water	7470A	
410-152936-5	Ferrous Sulfate Heptahydrate	Dissolved	Water	7470A	
MB 410-451030/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-451030/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 451235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Dissolved	Water	7470A	451030
410-152936-4	Potassium Bicarbonate	Dissolved	Water	7470A	451030
410-152936-5	Ferrous Sulfate Heptahydrate	Dissolved	Water	7470A	451030
MB 410-451030/1-A	Method Blank	Total/NA	Water	7470A	451030
LCS 410-451030/2-A	Lab Control Sample	Total/NA	Water	7470A	451030

Analysis Batch: 452046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Dissolved	Water	6010D	450976
410-152936-4	Potassium Bicarbonate	Dissolved	Water	6010D	450976
MB 410-450976/1-A	Method Blank	Total Recoverable	Water	6010D	450976
LCS 410-450976/2-A	Lab Control Sample	Total Recoverable	Water	6010D	450976

Analysis Batch: 453805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Dissolved	Water	6020B	450976
410-152936-3	ADA Carbon Fluxsorb	Dissolved	Water	6020B	450976
410-152936-4	Potassium Bicarbonate	Dissolved	Water	6020B	450976
410-152936-4	Potassium Bicarbonate	Dissolved	Water	6020B	450976
410-152936-5	Ferrous Sulfate Heptahydrate	Dissolved	Water	6020B	450976
MB 410-450976/1-A	Method Blank	Total Recoverable	Water	6020B	450976
LCS 410-450976/2-A	Lab Control Sample	Total Recoverable	Water	6020B	450976

Analysis Batch: 454103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Dissolved	Water	6020B	450976
410-152936-4	Potassium Bicarbonate	Dissolved	Water	6020B	450976

QC Association Summary

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Metals

Analysis Batch: 454833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-5	Ferrous Sulfate Heptahydrate	Dissolved	Water	6010D	450976
410-152936-5	Ferrous Sulfate Heptahydrate	Dissolved	Water	6010D	450976
MB 410-450976/1-A	Method Blank	Total Recoverable	Water	6010D	450976
LCS 410-450976/2-A	Lab Control Sample	Total Recoverable	Water	6010D	450976

General Chemistry

Analysis Batch: 449111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-1	AP-2-3/4 DGWC-48 Soil IC	Total/NA	Solid	Moisture	
410-152936-2	AP-1 DGWC-69 Soil IC	Total/NA	Solid	Moisture	

Analysis Batch: 449523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Total/NA	Water	2540C - 2015	
410-152936-4	Potassium Bicarbonate	Total/NA	Water	2540C - 2015	
410-152936-5	Ferrous Sulfate Heptahydrate	Total/NA	Water	2540C - 2015	
MB 410-449523/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-449523/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
410-152936-5 DU	Ferrous Sulfate Heptahydrate	Total/NA	Water	2540C - 2015	

Analysis Batch: 451259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-152936-3	ADA Carbon Fluxsorb	Total/NA	Water	9040C	
410-152936-4	Potassium Bicarbonate	Total/NA	Water	9040C	
410-152936-5	Ferrous Sulfate Heptahydrate	Total/NA	Water	9040C	
LCS 410-451259/3	Lab Control Sample	Total/NA	Water	9040C	
LCSD 410-451259/4	Lab Control Sample Dup	Total/NA	Water	9040C	

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-2-3/4 DGWC-48 Soil IC
Lab Sample ID: 410-152936-1
Date Collected: 11/30/23 08:10
Matrix: Solid
Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			449309	UAMX	ELLE	12/01/23 19:57
Total/NA	Analysis	6020B		2	451025	UCIG	ELLE	12/06/23 16:32
Total/NA	Analysis	Moisture		1	449111	UVJN	ELLE	12/01/23 13:41

Client Sample ID: AP-2-3/4 DGWC-48 Soil IC
Lab Sample ID: 410-152936-1
Date Collected: 11/30/23 08:10
Matrix: Solid
Date Received: 11/30/23 15:56
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			449309	UAMX	ELLE	12/01/23 19:57
Total/NA	Analysis	6010D		1	450040	MT26	ELLE	12/05/23 03:59
Total/NA	Prep	7471B			449339	UAMX	ELLE	12/01/23 22:48
Total/NA	Analysis	7471B		1	449812	UEFS	ELLE	12/04/23 09:44

Client Sample ID: AP-1 DGWC-69 Soil IC
Lab Sample ID: 410-152936-2
Date Collected: 11/30/23 08:25
Matrix: Solid
Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			449309	UAMX	ELLE	12/01/23 19:57
Total/NA	Analysis	6020B		2	451025	UCIG	ELLE	12/06/23 16:36
Total/NA	Analysis	Moisture		1	449111	UVJN	ELLE	12/01/23 13:41

Client Sample ID: AP-1 DGWC-69 Soil IC
Lab Sample ID: 410-152936-2
Date Collected: 11/30/23 08:25
Matrix: Solid
Date Received: 11/30/23 15:56
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			449309	UAMX	ELLE	12/01/23 19:57
Total/NA	Analysis	6010D		1	450040	MT26	ELLE	12/05/23 04:17
Total/NA	Prep	3050B			449309	UAMX	ELLE	12/01/23 19:57
Total/NA	Analysis	6010D		1	450517	T8CQ	ELLE	12/05/23 20:00
Total/NA	Prep	7471B			449339	UAMX	ELLE	12/01/23 22:48
Total/NA	Analysis	7471B		1	449812	UEFS	ELLE	12/04/23 09:45

Client Sample ID: ADA Carbon Fluxsorb
Lab Sample ID: 410-152936-3
Date Collected: 11/30/23 08:00
Matrix: Water
Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	455860	UJE2	ELLE	12/19/23 19:40
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6010D		1	452046	MT26	ELLE	12/08/23 22:10
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6020B		1	453805	UCIG	ELLE	12/13/23 15:56

Client Sample ID: ADA Carbon Fluxsorb
Lab Sample ID: 410-152936-3

Date Collected: 11/30/23 08:00
Matrix: Water
Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6020B		1	453805	UCIG	ELLE	12/13/23 16:31
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6020B		1	454103	F7JF	ELLE	12/14/23 08:37
Dissolved	Prep	7470A			451030	UAMX	ELLE	12/06/23 21:19
Dissolved	Analysis	7470A		1	451235	UEFS	ELLE	12/07/23 09:37
Total/NA	Analysis	2540C - 2015		1	449523	UOCA	ELLE	12/04/23 06:37 - 12/04/23 18:48 [1]
Total/NA	Analysis	9040C		1	451259	DI9Q	ELLE	12/06/23 17:55

Client Sample ID: Potassium Bicarbonate
Lab Sample ID: 410-152936-4

Date Collected: 11/30/23 08:15
Matrix: Water
Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		10	455860	UJE2	ELLE	12/19/23 20:52
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6010D		1	452046	MT26	ELLE	12/08/23 22:28
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6020B		1	453805	UCIG	ELLE	12/13/23 16:04
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6020B		1	453805	UCIG	ELLE	12/13/23 16:39
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6020B		1	454103	F7JF	ELLE	12/14/23 08:39
Dissolved	Prep	7470A			451030	UAMX	ELLE	12/06/23 21:19
Dissolved	Analysis	7470A		1	451235	UEFS	ELLE	12/07/23 10:23
Total/NA	Analysis	2540C - 2015		1	449523	UOCA	ELLE	12/04/23 06:37 - 12/04/23 18:48 [1]
Total/NA	Analysis	9040C		1	451259	DI9Q	ELLE	12/06/23 18:04

Client Sample ID: Ferrous Sulfate Heptahydrate
Lab Sample ID: 410-152936-5

Date Collected: 11/30/23 08:30
Matrix: Water
Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		500	457976	W7FX	ELLE	12/23/23 22:04
Total/NA	Analysis	EPA 300.0 R2.1		5	455860	UJE2	ELLE	12/19/23 20:04
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6010D		1	454833	T8CQ	ELLE	12/15/23 14:47
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6010D		10	454833	T8CQ	ELLE	12/15/23 15:03
Dissolved	Prep	3005A			450976	NU9R	ELLE	12/06/23 18:23
Dissolved	Analysis	6020B		1	453805	UCIG	ELLE	12/13/23 16:56
Dissolved	Prep	7470A			451030	UAMX	ELLE	12/06/23 21:19
Dissolved	Analysis	7470A		1	451235	UEFS	ELLE	12/07/23 09:51
Total/NA	Analysis	2540C - 2015		1	449523	UOCA	ELLE	12/04/23 06:37 - 12/04/23 18:48 [1]

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: Ferrous Sulfate Heptahydrate
Lab Sample ID: 410-152936-5

Date Collected: 11/30/23 08:30
Matrix: Water
Date Received: 11/30/23 15:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9040C		1	451259	DI9Q	ELLE	12/06/23 18:00

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-24
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	01-31-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-24
Quebec Ministry of Environment and Fight against Climate Change	PALA	1978	09-16-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
7471B	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3050B	Preparation, Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
7471B	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-152936-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-152936-1	AP-2-3/4 DGWC-48 Soil IC	Solid	11/30/23 08:10	11/30/23 15:56
410-152936-2	AP-1 DGWC-69 Soil IC	Solid	11/30/23 08:25	11/30/23 15:56
410-152936-3	ADA Carbon Fluxsorb	Water	11/30/23 08:00	11/30/23 15:56
410-152936-4	Potassium Bicarbonate	Water	11/30/23 08:15	11/30/23 15:56
410-152936-5	Ferrous Sulfate Heptahydrate	Water	11/30/23 08:30	11/30/23 15:56

410-152936 Chain of Custody

Environmental Analysis Request/Chain of Custody

ories

Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Terra Systems, Inc.			
Project Name/#: WSP Plant McDonough CCR TS III	Site ID #: Srymna, GA		
Project Manager: Michael D. Lee	P.O. #: 232720 11-30-23		
Sampler: Michael D. Lee	PWSID #:		
Phone #: 302-798-9553	Quote #: 41016315		
State where samples were collected: ___ GA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	Surface	NPDES	Other:	Total # of Containers	Analyses Requested / Preservation Codes: N	N	N	-	-						
														Total As, Ba, Be, Bo, Ca, Co	Co, Cr, Hg, Li, Mo, Pb, Sb,	Se, Tl + %Moisture	SO4, Fl, Cl	Total Dissolved Solids & pH	Dis As, Ba, Be, Bo, Ca, Cd,	Co, Cr, Hg, Li, Mo, Pb, Sb,	Se, Tl (field filtered)		
AP-1 DGWC-48 Soil IC	11/30/2023	8:10		X	X								1	X	X	X								
AP-2-3/41 DGWC-48 Soil IC	11/30/2023	8:25		X	X								1	X	X	X								
ADA Carbon Fluxsorb	11/30/2023	8:00		X				X					3				X	X	X	X	X			
Potassium Bicarbonate	11/30/2023	8:15		X				X					3				X	X	X	X	X			
Ferrous Sulfate Heptahydrate	11/30/2023	8:30		X				X					3				X	X	X	X	X			

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 12/14/23

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mlee@terrasystems.net

Phone: 302-798-9553

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: _____

Relinquished by:	Date	Time	Received by:	Date	Time
Michael D. Lee	11/30/23	12:05	[illegible]	11/30/23	1205
[illegible]	11/30/23	1556			
Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Temperature upon receipt R 1.0 °C		

C 0.8

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: **Terra Systems, Inc.**			
Project Name/#: WSP Plant McDonough CCR TS III	Site ID #: Srymna, GA		
Project Manager: Michael D. Lee	P.O. #: 232720 11-30-23		
Sampler: Michael D. Lee	PWSID #:		
Phone #: 302-798-9553	Quote #: 41016315		
State where samples were collected: ____ GA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Matrix: Water Potable ☐ Ground ☑ NPDES ☐ Surface ☐	Matrix: Other:	Total # of Containers	Analyses Requested / Preservation Codes: Total As, Ba, Be, Bo, Ca, Co (N)	Co, Cr, Hg, Li, Mo, Pb, Sb, (N)	Se, Tl + %Moisture (N)	SO4, Fl, Cl (-)	Total Dissolved Solids & pH (-)	Dis As, Ba, Be, Bo, Ca, Cd,	Co, Cr, Hg, Li, Mo, Pb, Sb,	Se, Tl (field filtered)			Remarks
AP-2-3/41 DGWC-48 Soil IC	11/30/2023	8:10		X	X			1	X	X	X								
AP-1 DGWC-69 Soil IC	11/30/2023	8:25		X	X			1	X	X	X								
ADA Carbon Fluxsorb	11/30/2023	8:00		X		X		3				X	X	X	X	X			
Potassium Bicarbonate	11/30/2023	8:15		X		X		3				X	X	X	X	X			
Ferrous Sulfate Heptahydrate	11/30/2023	8:30		X		X		3				X	X	X	X	X			

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 12/14/23

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mlee@terrasystems.net

Phone: 302-798-9553

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: _____

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-152936-1

Login Number: 152936

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 1/11/2024 11:03:36 AM

JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-155716-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

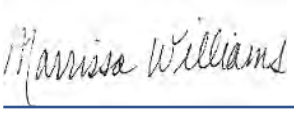
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/11/2024 11:03:36 AM

Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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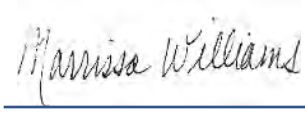

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 9
QC Sample Results 13
QC Association Summary 18
Lab Chronicle 21
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-155716-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/22/2023 2:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D: The following samples were diluted due to the nature of the sample matrix: 25 g/L ADA Carbon Fluxsorb in DGWC-48 GW (410-155716-3) and 40 g/L ADA Carbon Fluxsorb in DGWC-48 GW (410-155716-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: 10 g/L ADA Carbon Fluxsorb Reagent
Lab Sample ID: 410-155716-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000860	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.00107	J	0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	0.473		0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00252		0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.000164	J	0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000421	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.00178		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	176		120	48.0	mg/L	1		2540C - 2015	Total/NA
pH	7.83	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: 10 g/L ADA Carbon Fluxsorb in DGWC-48 GW
Lab Sample ID: 410-155716-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	252		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	5.83	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.614		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0846		0.0500	0.0110	mg/L	1		6010D	Dissolved
Arsenic	0.00259		0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.112		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000407	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00126		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	61.8	B ^2	0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00222		0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.241	^2	0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000322	J B	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.00192		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	289		70.6	28.2	mg/L	1		2540C - 2015	Total/NA
pH	6.72	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: 25 g/L ADA Carbon Fluxsorb in DGWC-48 GW
Lab Sample ID: 410-155716-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	234		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	5.53	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.595	cn	0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.00138	J cn	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0419	cn	0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00242	cn	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00162	cn	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	51.1	cn	0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00835	cn	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.228	cn	0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000368	J cn	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.00874	cn	0.000500	0.000130	mg/L	1		6020B	Dissolved
Selenium	0.000719	J cn	0.00100	0.000278	mg/L	1		6020B	Dissolved
Total Dissolved Solids	406		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.63	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 25 g/L ADA Carbon Fluxsorb in DGWC-48 GW (Continued)

Lab Sample ID: 410-155716-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Temperature	22.0	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: 40 g/L ADA Carbon Fluxsorb in DGWC-48 GW

Lab Sample ID: 410-155716-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	272		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	7.25	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.108	cn	0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0103	cn	0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000240	J cn	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	9.47	cn	0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00203	cn	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.0396	cn	0.000500	0.000156	mg/L	1		6020B	Dissolved
Molybdenum	0.00199	cn	0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	380		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.76	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 10 g/L ADA Carbon Fluxsorb Reagent
Lab Sample ID: 410-155716-1

Date Collected: 12/21/23 08:00
Matrix: Water
Date Received: 12/22/23 14:14

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			01/09/24 15:48	5
Sulfate	<2.50		7.50	2.50	mg/L			01/09/24 15:48	5
Chloride	<3.00		7.50	3.00	mg/L			01/09/24 15:48	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		01/03/24 14:01	01/08/24 10:46	1
Lithium	<0.0110		0.0500	0.0110	mg/L		01/03/24 14:01	01/08/24 10:46	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		01/03/24 14:01	01/10/24 15:06	1
Arsenic	**0.000860**	**J**	0.00200	0.000680	mg/L		01/03/24 14:01	01/10/24 15:06	1
Barium	**0.00107**	**J**	0.00200	0.000746	mg/L		01/03/24 14:01	01/10/24 15:06	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		01/03/24 14:01	01/10/24 15:06	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		01/03/24 14:01	01/10/24 15:06	1
Calcium	**0.473**		0.120	0.0500	mg/L		01/03/24 14:01	01/10/24 15:06	1
Chromium	**0.00252**		0.00200	0.000550	mg/L		01/03/24 14:01	01/10/24 15:06	1
Cobalt	**0.000164**	**J**	0.000500	0.000156	mg/L		01/03/24 14:01	01/10/24 15:06	1
Lead	**0.000421**	**J**	0.000500	0.000120	mg/L		01/03/24 14:01	01/10/24 15:06	1
Molybdenum	**0.00178**		0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 15:06	1
Selenium	<0.000278		0.00100	0.000278	mg/L		01/03/24 14:01	01/10/24 15:06	1
Thallium	<0.000130		0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 15:06	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000395		0.00100	0.000395	mg/L		01/04/24 04:49	01/04/24 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**176**		120	48.0	mg/L			12/28/23 09:50	1
pH (SW846 9040C)	**7.83**	**HF**	0.0100	0.0100	S.U.			01/03/24 18:30	1
Temperature (SW846 9040C)	**21.8**	**HF**	0.0100	0.0100	Degrees C			01/03/24 18:30	1

Client Sample ID: 10 g/L ADA Carbon Fluxsorb in DGWC-48 GW
Lab Sample ID: 410-155716-2

Date Collected: 12/21/23 08:15
Matrix: Water
Date Received: 12/22/23 14:14

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			01/09/24 16:12	5
Sulfate	**252**		75.0	25.0	mg/L			01/09/24 16:24	50
Chloride	**5.83**	**J**	7.50	3.00	mg/L			01/09/24 16:12	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.614**		0.0500	0.0120	mg/L		01/03/24 10:13	01/05/24 11:54	1
Lithium	**0.0846**		0.0500	0.0110	mg/L		01/03/24 10:13	01/05/24 11:54	1

Client Sample ID: 10 g/L ADA Carbon Fluxsorb in DGWC-48 GW

Lab Sample ID: 410-155716-2

Date Collected: 12/21/23 08:15
Matrix: Water
Date Received: 12/22/23 14:14

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		01/03/24 10:13	01/08/24 23:48	1
Arsenic	0.00259		0.00200	0.000680	mg/L		01/03/24 10:13	01/08/24 23:48	1
Barium	0.112		0.00200	0.000746	mg/L		01/03/24 10:13	01/09/24 09:30	1
Beryllium	0.000407	J	0.000500	0.000119	mg/L		01/03/24 10:13	01/08/24 23:48	1
Cadmium	0.00126		0.000500	0.000151	mg/L		01/03/24 10:13	01/08/24 23:48	1
Calcium	61.8	B ^2	0.120	0.0500	mg/L		01/03/24 10:13	01/08/24 23:48	1
Chromium	0.00222		0.00200	0.000550	mg/L		01/03/24 10:13	01/08/24 23:48	1
Cobalt	0.241	^2	0.000500	0.000156	mg/L		01/03/24 10:13	01/08/24 23:48	1
Lead	0.000322	J B	0.000500	0.000120	mg/L		01/03/24 10:13	01/08/24 23:48	1
Molybdenum	0.00192		0.000500	0.000130	mg/L		01/03/24 10:13	01/08/24 23:48	1
Selenium	<0.000278		0.00100	0.000278	mg/L		01/03/24 10:13	01/08/24 23:48	1
Thallium	<0.000130		0.000500	0.000130	mg/L		01/03/24 10:13	01/08/24 23:48	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		01/02/24 09:34	01/03/24 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	289		70.6	28.2	mg/L			12/28/23 17:48	1
pH (SW846 9040C)	6.72	HF	0.0100	0.0100	S.U.			01/03/24 18:49	1
Temperature (SW846 9040C)	21.8	HF	0.0100	0.0100	Degrees C			01/03/24 18:49	1

Client Sample ID: 25 g/L ADA Carbon Fluxsorb in DGWC-48 GW

Lab Sample ID: 410-155716-3

Date Collected: 12/21/23 08:30
Matrix: Water
Date Received: 12/22/23 14:14

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			01/09/24 16:36	5
Sulfate	234		75.0	25.0	mg/L			01/09/24 16:48	50
Chloride	5.53	J	7.50	3.00	mg/L			01/09/24 16:36	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.595	cn	0.0500	0.0120	mg/L		01/03/24 14:01	01/08/24 10:43	1
Lithium	<0.110	cn	0.500	0.110	mg/L		01/03/24 14:01	01/09/24 05:27	10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200	cn	0.00100	0.000200	mg/L		01/03/24 14:01	01/10/24 15:04	1
Arsenic	0.00138	J cn	0.00200	0.000680	mg/L		01/03/24 14:01	01/10/24 15:04	1
Barium	0.0419	cn	0.00200	0.000746	mg/L		01/03/24 14:01	01/10/24 15:04	1
Beryllium	0.00242	cn	0.000500	0.000119	mg/L		01/03/24 14:01	01/10/24 15:04	1
Cadmium	0.00162	cn	0.000500	0.000151	mg/L		01/03/24 14:01	01/10/24 15:04	1
Calcium	51.1	cn	0.120	0.0500	mg/L		01/03/24 14:01	01/10/24 15:04	1
Chromium	0.00835	cn	0.00200	0.000550	mg/L		01/03/24 14:01	01/10/24 15:04	1
Cobalt	0.228	cn	0.000500	0.000156	mg/L		01/03/24 14:01	01/10/24 15:04	1

Client Sample ID: 25 g/L ADA Carbon Fluxsorb in DGWC-48 GW

Lab Sample ID: 410-155716-3

Date Collected: 12/21/23 08:30
Date Received: 12/22/23 14:14

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.000368**	**J cn**	0.000500	0.000120	mg/L		01/03/24 14:01	01/10/24 15:04	1
Molybdenum	**0.00874**	**cn**	0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 15:04	1
Selenium	**0.000719**	**J cn**	0.00100	0.000278	mg/L		01/03/24 14:01	01/10/24 15:04	1
Thallium	<0.000130	cn	0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 15:04	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		01/02/24 09:34	01/03/24 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**406**		60.0	24.0	mg/L			12/28/23 17:48	1
pH (SW846 9040C)	**6.63**	**HF**	0.0100	0.0100	S.U.			01/03/24 18:53	1
Temperature (SW846 9040C)	**22.0**	**HF**	0.0100	0.0100	Degrees C			01/03/24 18:53	1

Client Sample ID: 40 g/L ADA Carbon Fluxsorb in DGWC-48 GW

Lab Sample ID: 410-155716-4

Date Collected: 12/21/23 08:45
Date Received: 12/22/23 14:14

Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			01/09/24 17:01	5
Sulfate	**272**		75.0	25.0	mg/L			01/09/24 17:13	50
Chloride	**7.25**	**J**	7.50	3.00	mg/L			01/09/24 17:01	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.108**	**cn**	0.0500	0.0120	mg/L		01/03/24 14:01	01/08/24 10:49	1
Lithium	<0.110	cn	0.500	0.110	mg/L		01/03/24 14:01	01/09/24 05:30	10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200	cn	0.00100	0.000200	mg/L		01/03/24 14:01	01/10/24 15:08	1
Arsenic	<0.000680	cn	0.00200	0.000680	mg/L		01/03/24 14:01	01/10/24 15:08	1
Barium	**0.0103**	**cn**	0.00200	0.000746	mg/L		01/03/24 14:01	01/10/24 15:08	1
Beryllium	<0.000119	cn	0.000500	0.000119	mg/L		01/03/24 14:01	01/10/24 15:08	1
Cadmium	**0.000240**	**J cn**	0.000500	0.000151	mg/L		01/03/24 14:01	01/10/24 15:08	1
Calcium	**9.47**	**cn**	0.120	0.0500	mg/L		01/03/24 14:01	01/10/24 15:08	1
Chromium	**0.00203**	**cn**	0.00200	0.000550	mg/L		01/03/24 14:01	01/10/24 15:08	1
Cobalt	**0.0396**	**cn**	0.000500	0.000156	mg/L		01/03/24 14:01	01/10/24 15:08	1
Lead	<0.000120	cn	0.000500	0.000120	mg/L		01/03/24 14:01	01/10/24 15:08	1
Molybdenum	**0.00199**	**cn**	0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 15:08	1
Selenium	<0.000278	cn	0.00100	0.000278	mg/L		01/03/24 14:01	01/10/24 15:08	1
Thallium	<0.000130	cn	0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 15:08	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000395		0.00100	0.000395	mg/L		01/04/24 04:49	01/04/24 11:57	1

Client Sample Results

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: 40 g/L ADA Carbon Fluxsorb in DGWC-48 GW
Lab Sample ID: 410-155716-4
Date Collected: 12/21/23 08:45
Matrix: Water
Date Received: 12/22/23 14:14

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	380		60.0	24.0	mg/L			12/28/23 17:48	1
pH (SW846 9040C)	6.76	HF	0.0100	0.0100	S.U.			01/03/24 18:40	1
Temperature (SW846 9040C)	21.8	HF	0.0100	0.0100	Degrees C			01/03/24 18:40	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-461771/5
Matrix: Water
Analysis Batch: 461771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			01/09/24 15:06	1
Sulfate	<0.500		1.50	0.500	mg/L			01/09/24 15:06	1
Chloride	<0.600		1.50	0.600	mg/L			01/09/24 15:06	1

Lab Sample ID: LCS 410-461771/3
Matrix: Water
Analysis Batch: 461771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7356		mg/L		98	90 - 110
Sulfate	7.50	7.962		mg/L		106	90 - 110
Chloride	3.00	2.959		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-461771/4
Matrix: Water
Analysis Batch: 461771

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7336		mg/L		98	90 - 110	0	20
Sulfate	7.50	7.995		mg/L		107	90 - 110	0	20
Chloride	3.00	2.971		mg/L		99	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-459728/1-A
Matrix: Water
Analysis Batch: 460793

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		01/03/24 10:13	01/05/24 10:25	1
Lithium	<0.0110		0.0500	0.0110	mg/L		01/03/24 10:13	01/05/24 10:25	1

Lab Sample ID: LCS 410-459728/2-A
Matrix: Water
Analysis Batch: 460793

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5030		mg/L		101	80 - 120
Lithium	0.500	0.4876		mg/L		98	80 - 120

Lab Sample ID: MB 410-459838/1-A
Matrix: Water
Analysis Batch: 461267

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		01/03/24 14:01	01/08/24 10:09	1
Lithium	<0.0110		0.0500	0.0110	mg/L		01/03/24 14:01	01/08/24 10:09	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-459838/2-A
Matrix: Water
Analysis Batch: 461267

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5248		mg/L		105	80 - 120
Lithium	0.500	0.4913		mg/L		98	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-459728/1-A
Matrix: Water
Analysis Batch: 461420

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		01/03/24 10:13	01/08/24 22:34	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		01/03/24 10:13	01/08/24 22:34	1
Barium	<0.000746		0.00200	0.000746	mg/L		01/03/24 10:13	01/08/24 22:34	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		01/03/24 10:13	01/08/24 22:34	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		01/03/24 10:13	01/08/24 22:34	1
Chromium	<0.000550		0.00200	0.000550	mg/L		01/03/24 10:13	01/08/24 22:34	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		01/03/24 10:13	01/08/24 22:34	1
Lead	0.0002270	J	0.000500	0.000120	mg/L		01/03/24 10:13	01/08/24 22:34	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		01/03/24 10:13	01/08/24 22:34	1
Selenium	<0.000278		0.00100	0.000278	mg/L		01/03/24 10:13	01/08/24 22:34	1
Thallium	<0.000130		0.000500	0.000130	mg/L		01/03/24 10:13	01/08/24 22:34	1

Lab Sample ID: MB 410-459728/1-A
Matrix: Water
Analysis Batch: 461610

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.0500		0.120	0.0500	mg/L		01/03/24 10:13	01/09/24 08:34	1

Lab Sample ID: LCS 410-459728/2-A
Matrix: Water
Analysis Batch: 461420

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.1014		mg/L		101	80 - 120
Arsenic	0.500	0.4942		mg/L		99	85 - 120
Barium	0.500	0.5070		mg/L		101	80 - 120
Beryllium	0.0500	0.04871		mg/L		97	90 - 112
Cadmium	0.0500	0.04948		mg/L		99	86 - 113
Calcium	5.00	5.210		mg/L		104	85 - 120
Chromium	0.500	0.4907		mg/L		98	90 - 115
Cobalt	0.500	0.4967		mg/L		99	90 - 113
Lead	0.0500	0.04990		mg/L		100	90 - 115
Molybdenum	0.0500	0.05058		mg/L		101	85 - 115
Selenium	0.100	0.09959		mg/L		100	80 - 120
Thallium	0.100	0.09639		mg/L		96	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-459838/1-A
Matrix: Water
Analysis Batch: 462232

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		01/03/24 14:01	01/10/24 14:35	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		01/03/24 14:01	01/10/24 14:35	1
Barium	<0.000746		0.00200	0.000746	mg/L		01/03/24 14:01	01/10/24 14:35	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		01/03/24 14:01	01/10/24 14:35	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		01/03/24 14:01	01/10/24 14:35	1
Calcium	<0.0500		0.120	0.0500	mg/L		01/03/24 14:01	01/10/24 14:35	1
Chromium	<0.000550		0.00200	0.000550	mg/L		01/03/24 14:01	01/10/24 14:35	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		01/03/24 14:01	01/10/24 14:35	1
Lead	<0.000120		0.000500	0.000120	mg/L		01/03/24 14:01	01/10/24 14:35	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 14:35	1
Selenium	<0.000278		0.00100	0.000278	mg/L		01/03/24 14:01	01/10/24 14:35	1
Thallium	<0.000130		0.000500	0.000130	mg/L		01/03/24 14:01	01/10/24 14:35	1

Lab Sample ID: LCS 410-459838/2-A
Matrix: Water
Analysis Batch: 462232

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09958		mg/L		100	80 - 120
Arsenic	0.500	0.4962		mg/L		99	85 - 120
Barium	0.500	0.4964		mg/L		99	80 - 120
Beryllium	0.0500	0.04965		mg/L		99	90 - 112
Cadmium	0.0500	0.04997		mg/L		100	86 - 113
Calcium	5.00	4.812		mg/L		96	85 - 120
Chromium	0.500	0.5022		mg/L		100	90 - 115
Cobalt	0.500	0.4955		mg/L		99	90 - 113
Lead	0.0500	0.05021		mg/L		100	90 - 115
Molybdenum	0.0500	0.05018		mg/L		100	85 - 115
Selenium	0.100	0.09940		mg/L		99	80 - 120
Thallium	0.100	0.09752		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-459258/1-A
Matrix: Water
Analysis Batch: 459774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		01/02/24 09:34	01/03/24 08:42	1

Lab Sample ID: LCS 410-459258/2-A
Matrix: Water
Analysis Batch: 459774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0009950		mg/L		100	80 - 118

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-460031/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 460301
Prep Batch: 460031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		01/04/24 04:49	01/04/24 11:41	1

Lab Sample ID: LCS 410-460031/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 460301
Prep Batch: 460031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0009762		mg/L		98	80 - 118

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-458087/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 458087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			12/28/23 09:50	1

Lab Sample ID: LCS 410-458087/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 458087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	203.0		mg/L		102	90 - 110

Lab Sample ID: MB 410-458552/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 458552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			12/28/23 17:48	1

Lab Sample ID: LCS 410-458552/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 458552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	203.0		mg/L		102	90 - 110

Method: 9040C - pH

Lab Sample ID: LCS 410-460250/3
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 460250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.020		S.U.		100	95 - 105

Method: 9040C - pH (Continued)

Lab Sample ID: 410-155716-1 DU
Client Sample ID: 10 g/L ADA Carbon Fluxsorb Reagent
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 460250

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.83	HF		7.840		S.U.				0.1	4
Temperature	21.8	HF		21.79		Degrees C				0.09	4

Lab Sample ID: 410-155716-4 DU
Client Sample ID: 40 g/L ADA Carbon Fluxsorb in DGWC-48 GW
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 460250

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.76	HF		6.810		S.U.				0.7	4
Temperature	21.8	HF		21.83		Degrees C				0.3	4

HPLC/IC

Analysis Batch: 461771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Total/NA	Water	EPA 300.0 R2.1	
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	EPA 300.0 R2.1	
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	EPA 300.0 R2.1	
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	EPA 300.0 R2.1	
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	EPA 300.0 R2.1	
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	EPA 300.0 R2.1	
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	EPA 300.0 R2.1	
MB 410-461771/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-461771/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-461771/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 459258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	7470A	
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	7470A	
MB 410-459258/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-459258/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 459728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	3005A	
MB 410-459728/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-459728/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 459774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	7470A	459258
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	7470A	459258
MB 410-459258/1-A	Method Blank	Total/NA	Water	7470A	459258
LCS 410-459258/2-A	Lab Control Sample	Total/NA	Water	7470A	459258

Prep Batch: 459838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Dissolved	Water	3005A	
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	3005A	
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	3005A	
MB 410-459838/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-459838/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 460031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Dissolved	Water	7470A	
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	7470A	
MB 410-460031/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-460031/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 460301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Dissolved	Water	7470A	460031

Metals (Continued)

Analysis Batch: 460301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	7470A	460031
MB 410-460031/1-A	Method Blank	Total/NA	Water	7470A	460031
LCS 410-460031/2-A	Lab Control Sample	Total/NA	Water	7470A	460031

Analysis Batch: 460793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6010D	459728
MB 410-459728/1-A	Method Blank	Total Recoverable	Water	6010D	459728
LCS 410-459728/2-A	Lab Control Sample	Total Recoverable	Water	6010D	459728

Analysis Batch: 461267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Dissolved	Water	6010D	459838
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6010D	459838
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6010D	459838
MB 410-459838/1-A	Method Blank	Total Recoverable	Water	6010D	459838
LCS 410-459838/2-A	Lab Control Sample	Total Recoverable	Water	6010D	459838

Analysis Batch: 461420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6020B	459728
MB 410-459728/1-A	Method Blank	Total Recoverable	Water	6020B	459728
LCS 410-459728/2-A	Lab Control Sample	Total Recoverable	Water	6020B	459728

Analysis Batch: 461554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6010D	459838
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6010D	459838

Analysis Batch: 461610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6020B	459728
MB 410-459728/1-A	Method Blank	Total Recoverable	Water	6020B	459728

Analysis Batch: 462232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Dissolved	Water	6020B	459838
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6020B	459838
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Dissolved	Water	6020B	459838
MB 410-459838/1-A	Method Blank	Total Recoverable	Water	6020B	459838
LCS 410-459838/2-A	Lab Control Sample	Total Recoverable	Water	6020B	459838

General Chemistry

Analysis Batch: 458087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Total/NA	Water	2540C - 2015	
MB 410-458087/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-458087/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

QC Association Summary

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

General Chemistry

Analysis Batch: 458552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	2540C - 2015	
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	2540C - 2015	
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	2540C - 2015	
MB 410-458552/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-458552/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 460250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Total/NA	Water	9040C	
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	9040C	
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	9040C	
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	9040C	
LCS 410-460250/3	Lab Control Sample	Total/NA	Water	9040C	
410-155716-1 DU	10 g/L ADA Carbon Fluxsorb Reagent	Total/NA	Water	9040C	
410-155716-4 DU	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Total/NA	Water	9040C	

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: 10 g/L ADA Carbon Fluxsorb Reagent
Lab Sample ID: 410-155716-1
Date Collected: 12/21/23 08:00
Matrix: Water
Date Received: 12/22/23 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	461771	W7FX	ELLE	01/09/24 15:48
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6010D		1	461267	MT26	ELLE	01/08/24 10:46
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6020B		1	462232	UCIG	ELLE	01/10/24 15:06
Dissolved	Prep	7470A			460031	NU9R	ELLE	01/04/24 04:49
Dissolved	Analysis	7470A		1	460301	UEFS	ELLE	01/04/24 11:59
Total/NA	Analysis	2540C - 2015		1	458087	UOCA	ELLE	12/28/23 09:50 - 12/28/23 18:07 [1]
Total/NA	Analysis	9040C		1	460250	DI9Q	ELLE	01/03/24 18:30

Client Sample ID: 10 g/L ADA Carbon Fluxsorb in DGWC-48 GW
Lab Sample ID: 410-155716-2
Date Collected: 12/21/23 08:15
Matrix: Water
Date Received: 12/22/23 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	461771	W7FX	ELLE	01/09/24 16:12
Total/NA	Analysis	EPA 300.0 R2.1		50	461771	W7FX	ELLE	01/09/24 16:24
Dissolved	Prep	3005A			459728	NU9R	ELLE	01/03/24 10:13
Dissolved	Analysis	6010D		1	460793	MT26	ELLE	01/05/24 11:54
Dissolved	Prep	3005A			459728	NU9R	ELLE	01/03/24 10:13
Dissolved	Analysis	6020B		1	461420	LC3M	ELLE	01/08/24 23:48
Dissolved	Prep	3005A			459728	NU9R	ELLE	01/03/24 10:13
Dissolved	Analysis	6020B		1	461610	LC3M	ELLE	01/09/24 09:30
Dissolved	Prep	7470A			459258	NU9R	ELLE	01/02/24 09:34
Dissolved	Analysis	7470A		1	459774	UEFS	ELLE	01/03/24 09:28
Total/NA	Analysis	2540C - 2015		1	458552	UOCA	ELLE	12/28/23 17:48 - 12/29/23 07:15 [1]
Total/NA	Analysis	9040C		1	460250	DI9Q	ELLE	01/03/24 18:49

Client Sample ID: 25 g/L ADA Carbon Fluxsorb in DGWC-48 GW
Lab Sample ID: 410-155716-3
Date Collected: 12/21/23 08:30
Matrix: Water
Date Received: 12/22/23 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	461771	W7FX	ELLE	01/09/24 16:36
Total/NA	Analysis	EPA 300.0 R2.1		50	461771	W7FX	ELLE	01/09/24 16:48
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6010D		1	461267	MT26	ELLE	01/08/24 10:43
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6010D		10	461554	MT26	ELLE	01/09/24 05:27
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6020B		1	462232	UCIG	ELLE	01/10/24 15:04

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: 25 g/L ADA Carbon Fluxsorb in DGWC-48
Lab Sample ID: 410-155716-3
GW

Date Collected: 12/21/23 08:30
Matrix: Water
Date Received: 12/22/23 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	7470A			459258	NU9R	ELLE	01/02/24 09:34
Dissolved	Analysis	7470A		1	459774	UEFS	ELLE	01/03/24 09:24
Total/NA	Analysis	2540C - 2015		1	458552	UOCA	ELLE	12/28/23 17:48 - 12/29/23 07:15 [1]
Total/NA	Analysis	9040C		1	460250	DI9Q	ELLE	01/03/24 18:53

Client Sample ID: 40 g/L ADA Carbon Fluxsorb in DGWC-48
Lab Sample ID: 410-155716-4
GW

Date Collected: 12/21/23 08:45
Matrix: Water
Date Received: 12/22/23 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	461771	W7FX	ELLE	01/09/24 17:01
Total/NA	Analysis	EPA 300.0 R2.1		50	461771	W7FX	ELLE	01/09/24 17:13
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6010D		1	461267	MT26	ELLE	01/08/24 10:49
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6010D		10	461554	MT26	ELLE	01/09/24 05:30
Dissolved	Prep	3005A			459838	NU9R	ELLE	01/03/24 14:01
Dissolved	Analysis	6020B		1	462232	UCIG	ELLE	01/10/24 15:08
Dissolved	Prep	7470A			460031	NU9R	ELLE	01/04/24 04:49
Dissolved	Analysis	7470A		1	460301	UEFS	ELLE	01/04/24 11:57
Total/NA	Analysis	2540C - 2015		1	458552	UOCA	ELLE	12/28/23 17:48 - 12/29/23 07:15 [1]
Total/NA	Analysis	9040C		1	460250	DI9Q	ELLE	01/03/24 18:40

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-24
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	01-31-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-24
Kentucky (UST)	State	0001.01	11-30-24
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-24
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-24
Quebec Ministry of Environment and Fight against Climate Change	PALA	1978	09-16-24
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-155716-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-155716-1	10 g/L ADA Carbon Fluxsorb Reagent	Water	12/21/23 08:00	12/22/23 14:14
410-155716-2	10 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Water	12/21/23 08:15	12/22/23 14:14
410-155716-3	25 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Water	12/21/23 08:30	12/22/23 14:14
410-155716-4	40 g/L ADA Carbon Fluxsorb in DGWC-48 GW	Water	12/21/23 08:45	12/22/23 14:14

Environmental Analysis Request/Chain of Custody

410-155716 Chain of Custody

Acct. # _____ Group # _____ Sample # _____

| | | |

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-155716-1

Login Number: 155716

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 3/14/2024 3:23:41 AM

JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-162509-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

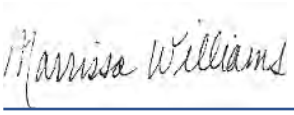
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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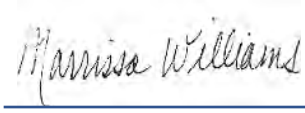

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 8
QC Sample Results 10
QC Association Summary 12
Lab Chronicle 14
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 20

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-162509-1 Eurofins Lancaster Laboratories Environment

Job Narrative
410-162509-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/1/2024 3:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1 DGWC-48 Colum 2A (410-162509-2). The container labels list a time of 0830, while the COC lists a time of 0845.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1 DGWC-48 Colum 2B (410-162509-3). The container labels list a time of 0845, while the COC lists a time of 0900.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1 DGWC-48 Colum 3A (410-162509-4). The container labels list a time of 0900, while the COC lists a time of 0915.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1 DGWC-48 Colum 3B (410-162509-5). The container labels list a time of 0915, while the COC lists a time of 0930.

Metals
Method 6010D - Dissolved: The following sample was diluted due to the nature of the sample matrix: 10 g/L CERES FeSO4-7H2O (410-162509-1). Elevated reporting limits (RLs) are provided.

Method 6010D - Dissolved: The following sample was diluted due to the nature of the sample matrix: AP-1 DGWC-48 Colum 2A (410-162509-2) at 10.0. Elevated reporting limits (RLs) are provided.

Method 6010D - Dissolved: The following sample was diluted due to the nature of the sample matrix: AP-1 DGWC-48 Colum 2B (410-162509-3) at 10.0. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: 10 g/L CERES FeSO4-7H2O — Lab Sample ID: 410-162509-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00229	cn	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0321	cn	0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000162	J cn	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	39.5	cn	0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.531	cn	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.127	cn	0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	2210	^2 cn	2.50	1.00	mg/L	50		6020B	Dissolved
Lead	0.0121	cn	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.0511	cn	0.000500	0.000130	mg/L	1		6020B	Dissolved
Thallium	0.000157	J cn	0.000500	0.000130	mg/L	1		6020B	Dissolved

Client Sample ID: AP-1 DGWC-48 Colum 2A — Lab Sample ID: 410-162509-2

No Detections.

Client Sample ID: AP-1 DGWC-48 Colum 2B — Lab Sample ID: 410-162509-3

No Detections.

Client Sample ID: AP-1 DGWC-48 Colum 3A — Lab Sample ID: 410-162509-4

No Detections.

Client Sample ID: AP-1 DGWC-48 Colum 3B — Lab Sample ID: 410-162509-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0440	J	0.0500	0.0110	mg/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: 10 g/L CERES FeSO4-7H2O
Lab Sample ID: 410-162509-1
Date Collected: 03/01/24 09:30
Matrix: Water
Date Received: 03/01/24 15:55

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.240	cn	1.00	0.240	mg/L		03/04/24 08:20	03/04/24 16:24	20
Lithium	<0.0110		0.0500	0.0110	mg/L		03/04/24 08:20	03/04/24 16:21	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200	cn	0.00100	0.000200	mg/L		03/04/24 08:20	03/05/24 16:49	1
Arsenic	**0.00229**	**cn**	0.00200	0.000680	mg/L		03/04/24 08:20	03/05/24 16:49	1
Barium	**0.0321**	**cn**	0.00200	0.000746	mg/L		03/04/24 08:20	03/05/24 16:49	1
Beryllium	<0.000119	^+ cn	0.000500	0.000119	mg/L		03/04/24 08:20	03/05/24 16:49	1
Cadmium	**0.000162**	**J cn**	0.000500	0.000151	mg/L		03/04/24 08:20	03/05/24 16:49	1
Calcium	**39.5**	**cn**	0.120	0.0500	mg/L		03/04/24 08:20	03/05/24 16:49	1
Chromium	**0.531**	**cn**	0.00200	0.000550	mg/L		03/04/24 08:20	03/05/24 16:49	1
Cobalt	**0.127**	**cn**	0.000500	0.000156	mg/L		03/04/24 08:20	03/05/24 18:31	1
Iron	**2210**	**^2 cn**	2.50	1.00	mg/L		03/04/24 08:20	03/05/24 17:02	50
Lead	**0.0121**	**cn**	0.000500	0.000120	mg/L		03/04/24 08:20	03/05/24 16:49	1
Molybdenum	**0.0511**	**cn**	0.000500	0.000130	mg/L		03/04/24 08:20	03/05/24 16:49	1
Selenium	<0.000278	cn	0.00100	0.000278	mg/L		03/04/24 08:20	03/05/24 16:49	1
Thallium	**0.000157**	**J cn**	0.000500	0.000130	mg/L		03/04/24 08:20	03/05/24 16:49	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		03/03/24 22:10	03/04/24 11:56	1

Client Sample ID: AP-1 DGWC-48 Colum 2A
Lab Sample ID: 410-162509-2
Date Collected: 03/01/24 08:45
Matrix: Water
Date Received: 03/01/24 15:55

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.110	cn	0.500	0.110	mg/L		03/04/24 08:20	03/04/24 20:50	10

Client Sample ID: AP-1 DGWC-48 Colum 2B
Lab Sample ID: 410-162509-3
Date Collected: 03/01/24 09:00
Matrix: Water
Date Received: 03/01/24 15:55

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.110	cn	0.500	0.110	mg/L		03/04/24 08:20	03/04/24 20:53	10

Client Sample ID: AP-1 DGWC-48 Colum 3A
Lab Sample ID: 410-162509-4
Date Collected: 03/01/24 09:15
Matrix: Water
Date Received: 03/01/24 15:55

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.275		1.25	0.275	mg/L		03/13/24 07:30	03/13/24 16:13	10

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1 DGWC-48 Colum 3B
Lab Sample ID: 410-162509-5
Date Collected: 03/01/24 09:30
Matrix: Water
Date Received: 03/01/24 15:55

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0440	J	0.0500	0.0110	mg/L		03/04/24 08:20	03/04/24 16:27	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-479226/1-A
Matrix: Water
Analysis Batch: 479546

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 479226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		03/04/24 08:20	03/04/24 15:36	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/04/24 08:20	03/04/24 15:36	1

Lab Sample ID: LCS 410-479226/2-A
Matrix: Water
Analysis Batch: 479546

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 479226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5579		mg/L		112	80 - 120
Lithium	0.500	0.5271		mg/L		105	80 - 120

Lab Sample ID: MB 410-482664/1-A
Matrix: Water
Analysis Batch: 483135

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 482664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0110		0.0500	0.0110	mg/L		03/13/24 07:30	03/13/24 15:09	1

Lab Sample ID: LCS 410-482664/2-A
Matrix: Water
Analysis Batch: 483135

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 482664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.4990		mg/L		100	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-479226/1-A
Matrix: Water
Analysis Batch: 480043

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 479226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/04/24 08:20	03/05/24 14:42	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/04/24 08:20	03/05/24 14:42	1
Barium	<0.000746		0.00200	0.000746	mg/L		03/04/24 08:20	03/05/24 14:42	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		03/04/24 08:20	03/05/24 14:42	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		03/04/24 08:20	03/05/24 14:42	1
Calcium	<0.0500		0.120	0.0500	mg/L		03/04/24 08:20	03/05/24 14:42	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/04/24 08:20	03/05/24 14:42	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		03/04/24 08:20	03/05/24 14:42	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/04/24 08:20	03/05/24 14:42	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/04/24 08:20	03/05/24 14:42	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/04/24 08:20	03/05/24 14:42	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/04/24 08:20	03/05/24 14:42	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/04/24 08:20	03/05/24 14:42	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-479226/1-A
Matrix: Water
Analysis Batch: 480044

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 479226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000156		0.000500	0.000156	mg/L		03/04/24 08:20	03/05/24 18:02	1

Lab Sample ID: LCS 410-479226/2-A
Matrix: Water
Analysis Batch: 480043

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 479226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.1042		mg/L		104	80 - 120
Arsenic	0.500	0.5148		mg/L		103	85 - 120
Barium	0.500	0.5234		mg/L		105	80 - 120
Beryllium	0.0500	0.05555		mg/L		111	90 - 112
Cadmium	0.0500	0.05275		mg/L		105	86 - 113
Calcium	5.00	5.170		mg/L		103	85 - 120
Chromium	0.500	0.5111		mg/L		102	90 - 115
Cobalt	0.500	0.5129		mg/L		103	90 - 113
Iron	5.00	5.083		mg/L		102	88 - 119
Lead	0.0500	0.05211		mg/L		104	90 - 115
Molybdenum	0.0500	0.05313		mg/L		106	85 - 115
Selenium	0.100	0.1028		mg/L		103	80 - 120
Thallium	0.100	0.1042		mg/L		104	80 - 120

Lab Sample ID: LCS 410-479226/2-A
Matrix: Water
Analysis Batch: 480044

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 479226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.5387		mg/L		108	90 - 113

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-479112/1-A
Matrix: Water
Analysis Batch: 479659

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		03/03/24 22:10	03/04/24 11:19	1

Lab Sample ID: LCS 410-479112/2-A
Matrix: Water
Analysis Batch: 479659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0008451		mg/L		85	80 - 118

Metals

Prep Batch: 479112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	7470A	
MB 410-479112/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-479112/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 479226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	3005A	
410-162509-2	AP-1 DGWC-48 Colum 2A	Dissolved	Water	3005A	
410-162509-3	AP-1 DGWC-48 Colum 2B	Dissolved	Water	3005A	
410-162509-5	AP-1 DGWC-48 Colum 3B	Dissolved	Water	3005A	
MB 410-479226/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-479226/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 479546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	6010D	479226
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	6010D	479226
410-162509-5	AP-1 DGWC-48 Colum 3B	Dissolved	Water	6010D	479226
MB 410-479226/1-A	Method Blank	Total Recoverable	Water	6010D	479226
LCS 410-479226/2-A	Lab Control Sample	Total Recoverable	Water	6010D	479226

Analysis Batch: 479564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-2	AP-1 DGWC-48 Colum 2A	Dissolved	Water	6010D	479226
410-162509-3	AP-1 DGWC-48 Colum 2B	Dissolved	Water	6010D	479226

Analysis Batch: 479659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	7470A	479112
MB 410-479112/1-A	Method Blank	Total/NA	Water	7470A	479112
LCS 410-479112/2-A	Lab Control Sample	Total/NA	Water	7470A	479112

Analysis Batch: 480043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	6020B	479226
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	6020B	479226
MB 410-479226/1-A	Method Blank	Total Recoverable	Water	6020B	479226
LCS 410-479226/2-A	Lab Control Sample	Total Recoverable	Water	6020B	479226

Analysis Batch: 480044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-1	10 g/L CERES FeSO4-7H2O	Dissolved	Water	6020B	479226
MB 410-479226/1-A	Method Blank	Total Recoverable	Water	6020B	479226
LCS 410-479226/2-A	Lab Control Sample	Total Recoverable	Water	6020B	479226

Prep Batch: 482664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-4	AP-1 DGWC-48 Colum 3A	Dissolved	Water	3005A	
MB 410-482664/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-482664/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Metals

Analysis Batch: 483135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-162509-4	AP-1 DGWC-48 Colum 3A	Dissolved	Water	6010D	482664
MB 410-482664/1-A	Method Blank	Total Recoverable	Water	6010D	482664
LCS 410-482664/2-A	Lab Control Sample	Total Recoverable	Water	6010D	482664

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: 10 g/L CERES FeSO4-7H2O
Lab Sample ID: 410-162509-1
Date Collected: 03/01/24 09:30
Matrix: Water
Date Received: 03/01/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6010D		1	479546	T8CQ	ELLE	03/04/24 16:21
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6010D		20	479546	T8CQ	ELLE	03/04/24 16:24
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6020B		1	480043	UCIG	ELLE	03/05/24 16:49
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6020B		50	480043	UCIG	ELLE	03/05/24 17:02
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6020B		1	480044	UCIG	ELLE	03/05/24 18:31
Dissolved	Prep	7470A			479112	UAMX	ELLE	03/03/24 22:10
Dissolved	Analysis	7470A		1	479659	UEFS	ELLE	03/04/24 11:56

Client Sample ID: AP-1 DGWC-48 Colum 2A
Lab Sample ID: 410-162509-2
Date Collected: 03/01/24 08:45
Matrix: Water
Date Received: 03/01/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6010D		10	479564	T8CQ	ELLE	03/04/24 20:50

Client Sample ID: AP-1 DGWC-48 Colum 2B
Lab Sample ID: 410-162509-3
Date Collected: 03/01/24 09:00
Matrix: Water
Date Received: 03/01/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6010D		10	479564	T8CQ	ELLE	03/04/24 20:53

Client Sample ID: AP-1 DGWC-48 Colum 3A
Lab Sample ID: 410-162509-4
Date Collected: 03/01/24 09:15
Matrix: Water
Date Received: 03/01/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			482664	NU9R	ELLE	03/13/24 07:30
Dissolved	Analysis	6010D		10	483135	T8CQ	ELLE	03/13/24 16:13

Client Sample ID: AP-1 DGWC-48 Colum 3B
Lab Sample ID: 410-162509-5
Date Collected: 03/01/24 09:30
Matrix: Water
Date Received: 03/01/24 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			479226	NU9R	ELLE	03/04/24 08:20
Dissolved	Analysis	6010D		1	479546	T8CQ	ELLE	03/04/24 16:27

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Georgia (DW)	State	C048	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010D	3005A	Water	Boron
6010D	3005A	Water	Lithium
6020B	3005A	Water	Antimony
6020B	3005A	Water	Arsenic
6020B	3005A	Water	Barium
6020B	3005A	Water	Beryllium
6020B	3005A	Water	Cadmium
6020B	3005A	Water	Calcium
6020B	3005A	Water	Chromium
6020B	3005A	Water	Cobalt
6020B	3005A	Water	Iron
6020B	3005A	Water	Lead
6020B	3005A	Water	Molybdenum
6020B	3005A	Water	Selenium
6020B	3005A	Water	Thallium
7470A	7470A	Water	Mercury

Method Summary

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-162509-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-162509-1	10 g/L CERES FeSO4-7H2O	Water	03/01/24 09:30	03/01/24 15:55
410-162509-2	AP-1 DGWC-48 Colum 2A	Water	03/01/24 08:45	03/01/24 15:55
410-162509-3	AP-1 DGWC-48 Colum 2B	Water	03/01/24 09:00	03/01/24 15:55
410-162509-4	AP-1 DGWC-48 Colum 3A	Water	03/01/24 09:15	03/01/24 15:55
410-162509-5	AP-1 DGWC-48 Colum 3B	Water	03/01/24 09:30	03/01/24 15:55

Environmental Analysis Request/Chain of Custody

eurofins | Environment Testing

410-162509 Chain of Custody

Acct. # _____ Group # _____ Sample # _____

Client: Terra Systems, Inc.			
Project Name/#: WSP Plant McDonough CCR TS III	Site ID #: Srymna, GA		
Project Manager: Michael D. Lee	P.O. #: 232720 3-1-24		
Sampler: Michael D. Lee	PWSID #:		
Phone #: 302-798-9553	Quote #: 41016315		
State where samples were collected: ___ GA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☑ NPDES ☐ Surface ☐	Other:	Total # of Containers	Analyses Requested / Preservation Codes: Dis As, Ba, Be, B, Ca, Cd (N)	Co, Cr, Fe, Hg, Li, Mo, Pb (N)	Sb, Se, Tl (field filtered) (N)	Dis. Li (field filtered)							Remarks
10 g/L CERES FeSO4-7H2O	3/1/2024	9:30		X		X		1	X	X	X								
AP-1 DGWC-48 Colum 2A	3/1/2024	8:45		X		X		1				X							
AP-1 DGWC-48 Colum 2B	3/1/2024	9:00		X		X		1				X							
AP-1 DGWC-48 Colum 3A	3/1/2024	9:15		X		X		1				X							
AP-1 DGWC-48 Colum 3B	3/1/2024	9:30		X		X		1				X							

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 3/15/24

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mlee@terrasystems.net

Phone: 302-798-9553

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: _____

Relinquished by:	Date	Time	Received by:	Date	Time
Michael D Lee	3/1/24	11:35	[illegible]	3/1/24	1105
[illegible]	3/1/24	1500			

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt raw 0.1 cor 0.0 °C

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-162509-1

Login Number: 162509

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Foreman, Kai

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 4/2/2024 2:03:25 PM

JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-164568-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

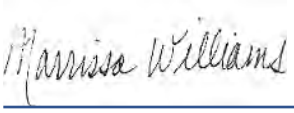
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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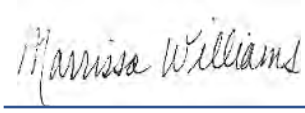

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 10
QC Sample Results 15
QC Association Summary 21
Lab Chronicle 25
Certification Summary 28
Method Summary 30
Sample Summary 31
Chain of Custody 32
Receipt Checklists 33

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-164568-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/19/2024 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Project/Site: WSP Plant McDonough CCR TS III

Job ID: 410-164568-1

Client Sample ID: DGWC-48 Inf — Lab Sample ID: 410-164568-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.553	J	1.00	0.450	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	262		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.40	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.692		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0953		0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0209		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00662		0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00253		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	63.4	^3+	0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.314	^2	0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0647		0.0500	0.0200	mg/L	1		6020B	Dissolved
Lead	0.000641		0.000500	0.000120	mg/L	1		6020B	Dissolved
Thallium	0.000187	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Mercury	0.0000910	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved
Total Dissolved Solids	427		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	3.95	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.0	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: DGWC-48 Control — Lab Sample ID: 410-164568-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	394		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	15.9		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.443		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0217		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000297	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000774		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	74.2		0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00172	J	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.195		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0367	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.000585		0.000500	0.000130	mg/L	1		6020B	Dissolved
Mercury	0.000100	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved
Total Dissolved Solids	795		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.15	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.1	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: DGWC-48 KHCO3 Inf — Lab Sample ID: 410-164568-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.725		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0969		0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0186		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00156		0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00161		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	61.2	^3+	0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.273	^2	0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0473	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Lead	0.000171	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Thallium	0.000392	J	0.000500	0.000130	mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Terra Systems Inc
Project/Site: WSP Plant McDonough CCR TS III

Job ID: 410-164568-1

Client Sample ID: DGWC-48 KHCO3 — Lab Sample ID: 410-164568-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	374		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	12.9		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.440		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0416		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000715		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	97.4		0.600	0.250	mg/L	5		6020B	Dissolved
Cobalt	0.104		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0249	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.000900		0.000500	0.000130	mg/L	1		6020B	Dissolved
Selenium	0.000345	J	0.00100	0.000278	mg/L	1		6020B	Dissolved
Thallium	0.000135	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Mercury	0.000125	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved
Total Dissolved Solids	670		120	48.0	mg/L	1		2540C - 2015	Total/NA
pH	6.85	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.1	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: DGWC-48 FeSO4-7H2O Inf — Lab Sample ID: 410-164568-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.590		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0972		0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.00240		0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	21.7		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.00852		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.125		0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.0101		0.000500	0.000130	mg/L	1		6020B	Dissolved
Selenium	0.000438	J	0.00100	0.000278	mg/L	1		6020B	Dissolved

Client Sample ID: DGWC-48 FeSO4-7H2O — Lab Sample ID: 410-164568-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.456	J	1.00	0.450	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	656		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	14.8		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.470		0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.000702	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0265		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000663		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	75.9		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.107		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0334	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.00164		0.000500	0.000130	mg/L	1		6020B	Dissolved
Selenium	0.000357	J	0.00100	0.000278	mg/L	1		6020B	Dissolved
Mercury	0.000108	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved
Total Dissolved Solids	1070		120	48.0	mg/L	1		2540C - 2015	Total/NA
pH	7.04	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.3	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: DGWC-48 ADA Carbon — Lab Sample ID: 410-164568-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.482		0.0500	0.0120	mg/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DGWC-48 ADA Carbon (Continued)
Lab Sample ID: 410-164568-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0175	J	0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0329		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000918		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	79.2		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.108		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.103		0.0500	0.0200	mg/L	1		6020B	Dissolved
Mercury	0.000114	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DGWC-48 Inf

Lab Sample ID: 410-164568-1
Date Collected: 03/19/24 08:00
Matrix: Water
Date Received: 03/19/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.553**	**J**	1.00	0.450	mg/L			03/23/24 22:19	5
Sulfate	**262**		75.0	25.0	mg/L			03/23/24 22:31	50
Chloride	**6.40**	**J**	7.50	3.00	mg/L			03/23/24 22:19	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.692**		0.0500	0.0120	mg/L		03/27/24 09:10	03/28/24 09:42	1
Lithium	**0.0953**		0.0500	0.0110	mg/L		03/27/24 09:10	03/28/24 09:42	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/27/24 09:10	04/01/24 18:30	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/27/24 09:10	04/01/24 18:30	1
Barium	**0.0209**		0.00200	0.000746	mg/L		03/27/24 09:10	04/01/24 18:30	1
Beryllium	**0.00662**		0.000500	0.000119	mg/L		03/27/24 09:10	04/01/24 18:30	1
Cadmium	**0.00253**		0.000500	0.000151	mg/L		03/27/24 09:10	04/01/24 18:30	1
Calcium	**63.4**	**^3+**	0.120	0.0500	mg/L		03/27/24 09:10	04/01/24 18:30	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/27/24 09:10	04/01/24 18:30	1
Cobalt	**0.314**	**^2**	0.000500	0.000156	mg/L		03/27/24 09:10	04/01/24 18:30	1
Iron	**0.0647**		0.0500	0.0200	mg/L		03/27/24 09:10	04/01/24 18:30	1
Lead	**0.000641**		0.000500	0.000120	mg/L		03/27/24 09:10	04/01/24 18:30	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/27/24 09:10	04/01/24 18:30	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/27/24 09:10	04/01/24 18:30	1
Thallium	**0.000187**	**J**	0.000500	0.000130	mg/L		03/27/24 09:10	04/01/24 18:30	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0000910**	**J**	0.000200	0.0000790	mg/L		03/28/24 09:10	03/29/24 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**427**		60.0	24.0	mg/L			03/21/24 06:30	1
pH (SW846 9040C)	**3.95**	**HF**	0.0100	0.0100	S.U.			03/21/24 17:41	1
Temperature (SW846 9040C)	**22.0**	**HF**	0.0100	0.0100	Degrees C			03/21/24 17:41	1

Client Sample ID: DGWC-48 Control

Lab Sample ID: 410-164568-2
Date Collected: 03/19/24 08:15
Matrix: Water
Date Received: 03/19/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			03/23/24 23:08	5
Sulfate	**394**		75.0	25.0	mg/L			03/23/24 23:20	50
Chloride	**15.9**		7.50	3.00	mg/L			03/23/24 23:08	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.443**		0.0500	0.0120	mg/L		03/26/24 09:52	03/28/24 16:45	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/26/24 09:52	03/28/24 16:45	1

Client Sample ID: DGWC-48 Control

Lab Sample ID: 410-164568-2

Date Collected: 03/19/24 08:15

Matrix: Water

Date Received: 03/19/24 17:15

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/26/24 09:52	04/01/24 20:16	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/26/24 09:52	04/01/24 20:16	1
Barium	**0.0217**		0.00200	0.000746	mg/L		03/26/24 09:52	04/01/24 20:16	1
Beryllium	**0.000297**	**J**	0.000500	0.000119	mg/L		03/26/24 09:52	04/01/24 19:38	1
Cadmium	**0.000774**		0.000500	0.000151	mg/L		03/26/24 09:52	04/01/24 20:16	1
Calcium	**74.2**		0.120	0.0500	mg/L		03/26/24 09:52	04/01/24 20:16	1
Chromium	**0.00172**	**J**	0.00200	0.000550	mg/L		03/26/24 09:52	04/01/24 20:16	1
Cobalt	**0.195**		0.000500	0.000156	mg/L		03/26/24 09:52	04/01/24 20:16	1
Iron	**0.0367**	**J**	0.0500	0.0200	mg/L		03/26/24 09:52	04/01/24 19:38	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/26/24 09:52	04/01/24 20:16	1
Molybdenum	**0.000585**		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:16	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/26/24 09:52	04/01/24 20:16	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:16	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000100**	**J**	0.000200	0.0000790	mg/L		03/28/24 09:10	03/29/24 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**795**		60.0	24.0	mg/L			03/21/24 06:30	1
pH (SW846 9040C)	**6.15**	**HF**	0.0100	0.0100	S.U.			03/21/24 17:30	1
Temperature (SW846 9040C)	**21.1**	**HF**	0.0100	0.0100	Degrees C			03/21/24 17:30	1

Client Sample ID: DGWC-48 KHCO3 Inf

Lab Sample ID: 410-164568-3

Date Collected: 03/19/24 08:20

Matrix: Water

Date Received: 03/19/24 17:15

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.725**		0.0500	0.0120	mg/L		03/27/24 09:10	03/28/24 09:39	1
Lithium	**0.0969**		0.0500	0.0110	mg/L		03/27/24 09:10	03/28/24 09:39	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/27/24 09:10	04/01/24 18:28	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/27/24 09:10	04/01/24 18:28	1
Barium	**0.0186**		0.00200	0.000746	mg/L		03/27/24 09:10	04/01/24 18:28	1
Beryllium	**0.00156**		0.000500	0.000119	mg/L		03/27/24 09:10	04/01/24 18:28	1
Cadmium	**0.00161**		0.000500	0.000151	mg/L		03/27/24 09:10	04/01/24 18:28	1
Calcium	**61.2**	**^3+**	0.120	0.0500	mg/L		03/27/24 09:10	04/01/24 18:28	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/27/24 09:10	04/01/24 18:28	1
Cobalt	**0.273**	**^2**	0.000500	0.000156	mg/L		03/27/24 09:10	04/01/24 18:28	1
Iron	**0.0473**	**J**	0.0500	0.0200	mg/L		03/27/24 09:10	04/01/24 18:28	1
Lead	**0.000171**	**J**	0.000500	0.000120	mg/L		03/27/24 09:10	04/01/24 18:28	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/27/24 09:10	04/01/24 18:28	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/27/24 09:10	04/01/24 18:28	1
Thallium	**0.000392**	**J**	0.000500	0.000130	mg/L		03/27/24 09:10	04/01/24 18:28	1

Client Sample ID: DGWC-48 KHCO3 Inf
Lab Sample ID: 410-164568-3
Date Collected: 03/19/24 08:20
Matrix: Water
Date Received: 03/19/24 17:15

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		03/29/24 09:20	03/29/24 13:04	1

Client Sample ID: DGWC-48 KHCO3
Lab Sample ID: 410-164568-4
Date Collected: 03/19/24 08:30
Matrix: Water
Date Received: 03/19/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			03/23/24 23:32	5
Sulfate	**374**		75.0	25.0	mg/L			03/23/24 23:44	50
Chloride	**12.9**		7.50	3.00	mg/L			03/23/24 23:32	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.440**		0.0500	0.0120	mg/L		03/25/24 20:30	03/26/24 10:08	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/25/24 20:30	03/26/24 10:08	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/25/24 20:30	03/26/24 17:54	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/25/24 20:30	03/26/24 17:54	1
Barium	**0.0416**		0.00200	0.000746	mg/L		03/25/24 20:30	03/26/24 17:54	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		03/25/24 20:30	03/26/24 17:54	1
Cadmium	**0.000715**		0.000500	0.000151	mg/L		03/25/24 20:30	03/26/24 17:54	1
Calcium	**97.4**		0.600	0.250	mg/L		03/25/24 20:30	03/26/24 18:30	5
Chromium	<0.000550		0.00200	0.000550	mg/L		03/25/24 20:30	03/26/24 17:54	1
Cobalt	**0.104**		0.000500	0.000156	mg/L		03/25/24 20:30	03/26/24 20:15	1
Iron	**0.0249**	**J**	0.0500	0.0200	mg/L		03/25/24 20:30	03/26/24 17:54	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/25/24 20:30	03/26/24 17:54	1
Molybdenum	**0.000900**		0.000500	0.000130	mg/L		03/25/24 20:30	03/26/24 17:54	1
Selenium	**0.000345**	**J**	0.00100	0.000278	mg/L		03/25/24 20:30	03/26/24 17:54	1
Thallium	**0.000135**	**J**	0.000500	0.000130	mg/L		03/25/24 20:30	03/26/24 17:54	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000125**	**J**	0.000200	0.0000790	mg/L		03/28/24 09:10	03/29/24 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**670**		120	48.0	mg/L			03/21/24 06:30	1
pH (SW846 9040C)	**6.85**	**HF**	0.0100	0.0100	S.U.			03/21/24 17:34	1
Temperature (SW846 9040C)	**21.1**	**HF**	0.0100	0.0100	Degrees C			03/21/24 17:34	1

Client Sample ID: DGWC-48 FeSO4-7H2O Inf
Lab Sample ID: 410-164568-5
Date Collected: 03/19/24 08:40
Matrix: Water
Date Received: 03/19/24 17:15

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.590**		0.0500	0.0120	mg/L		03/26/24 09:52	03/28/24 16:48	1
Lithium	**0.0972**		0.0500	0.0110	mg/L		03/26/24 09:52	03/28/24 16:48	1

Client Sample ID: DGWC-48 FeSO4-7H2O Inf
Lab Sample ID: 410-164568-5
Date Collected: 03/19/24 08:40
Matrix: Water
Date Received: 03/19/24 17:15

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/26/24 09:52	04/01/24 20:18	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/26/24 09:52	04/01/24 20:18	1
Barium	**0.00240**		0.00200	0.000746	mg/L		03/26/24 09:52	04/01/24 20:18	1
Beryllium	<0.000119	^+ *+	0.000500	0.000119	mg/L		03/26/24 09:52	04/01/24 20:18	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		03/26/24 09:52	04/01/24 20:18	1
Calcium	**21.7**		0.120	0.0500	mg/L		03/26/24 09:52	04/01/24 20:18	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/26/24 09:52	04/01/24 20:18	1
Cobalt	**0.00852**		0.000500	0.000156	mg/L		03/26/24 09:52	04/01/24 20:18	1
Iron	**0.125**		0.0500	0.0200	mg/L		03/26/24 09:52	04/01/24 19:40	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/26/24 09:52	04/01/24 20:18	1
Molybdenum	**0.0101**		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:18	1
Selenium	**0.000438**	**J**	0.00100	0.000278	mg/L		03/26/24 09:52	04/01/24 20:18	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:18	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		03/29/24 09:20	03/29/24 13:09	1

Client Sample ID: DGWC-48 FeSO4-7H2O
Lab Sample ID: 410-164568-6
Date Collected: 03/19/24 08:45
Matrix: Water
Date Received: 03/19/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.456**	**J**	1.00	0.450	mg/L			03/23/24 23:56	5
Sulfate	**656**		75.0	25.0	mg/L			03/24/24 00:08	50
Chloride	**14.8**		7.50	3.00	mg/L			03/23/24 23:56	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.470**		0.0500	0.0120	mg/L		03/26/24 09:52	03/28/24 16:29	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/26/24 09:52	03/28/24 16:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/26/24 09:52	04/01/24 20:12	1
Arsenic	**0.000702**	**J**	0.00200	0.000680	mg/L		03/26/24 09:52	04/01/24 20:12	1
Barium	**0.0265**		0.00200	0.000746	mg/L		03/26/24 09:52	04/01/24 20:12	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		03/26/24 09:52	04/01/24 19:04	1
Cadmium	**0.000663**		0.000500	0.000151	mg/L		03/26/24 09:52	04/01/24 20:12	1
Calcium	**75.9**		0.120	0.0500	mg/L		03/26/24 09:52	04/01/24 20:12	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/26/24 09:52	04/01/24 20:12	1
Cobalt	**0.107**		0.000500	0.000156	mg/L		03/26/24 09:52	04/01/24 20:12	1
Iron	**0.0334**	**J**	0.0500	0.0200	mg/L		03/26/24 09:52	04/01/24 19:04	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/26/24 09:52	04/01/24 20:12	1
Molybdenum	**0.00164**		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:12	1
Selenium	**0.000357**	**J**	0.00100	0.000278	mg/L		03/26/24 09:52	04/01/24 20:12	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/26/24 09:52	04/02/24 11:39	1

Client Sample ID: DGWC-48 FeSO4-7H2O

Lab Sample ID: 410-164568-6
Date Collected: 03/19/24 08:45
Matrix: Water
Date Received: 03/19/24 17:15

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000108	J	0.000200	0.0000790	mg/L		03/28/24 09:10	03/29/24 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	1070		120	48.0	mg/L			03/21/24 06:30	1
pH (SW846 9040C)	7.04	HF	0.0100	0.0100	S.U.			03/21/24 17:38	1
Temperature (SW846 9040C)	21.3	HF	0.0100	0.0100	Degrees C			03/21/24 17:38	1

Client Sample ID: DGWC-48 ADA Carbon

Lab Sample ID: 410-164568-7
Date Collected: 03/19/24 09:00
Matrix: Water
Date Received: 03/19/24 17:15

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.482		0.0500	0.0120	mg/L		03/26/24 09:52	03/28/24 16:41	1
Lithium	0.0175	J	0.0500	0.0110	mg/L		03/26/24 09:52	03/28/24 16:41	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/26/24 09:52	04/01/24 20:14	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/26/24 09:52	04/01/24 20:14	1
Barium	0.0329		0.00200	0.000746	mg/L		03/26/24 09:52	04/01/24 20:14	1
Beryllium	<0.000119	^+ *+	0.000500	0.000119	mg/L		03/26/24 09:52	04/01/24 20:14	1
Cadmium	0.000918		0.000500	0.000151	mg/L		03/26/24 09:52	04/01/24 20:14	1
Calcium	79.2		0.120	0.0500	mg/L		03/26/24 09:52	04/01/24 20:14	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/26/24 09:52	04/01/24 20:14	1
Cobalt	0.108		0.000500	0.000156	mg/L		03/26/24 09:52	04/01/24 20:14	1
Iron	0.103		0.0500	0.0200	mg/L		03/26/24 09:52	04/01/24 19:36	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/26/24 09:52	04/01/24 20:14	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:14	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/26/24 09:52	04/01/24 20:14	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 19:36	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000114	J	0.000200	0.0000790	mg/L		03/28/24 09:10	03/29/24 09:56	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-486454/5
Matrix: Water
Analysis Batch: 486454

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			03/23/24 20:06	1
Sulfate	<0.500		1.50	0.500	mg/L			03/23/24 20:06	1
Chloride	<0.600		1.50	0.600	mg/L			03/23/24 20:06	1

Lab Sample ID: LCS 410-486454/3
Matrix: Water
Analysis Batch: 486454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.6946		mg/L		93	90 - 110
Sulfate	7.50	7.247		mg/L		97	90 - 110
Chloride	3.00	2.876		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-486454/4
Matrix: Water
Analysis Batch: 486454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7177		mg/L		96	90 - 110	3	20
Sulfate	7.50	7.524		mg/L		100	90 - 110	4	20
Chloride	3.00	2.972		mg/L		99	90 - 110	3	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-486912/1-A
Matrix: Water
Analysis Batch: 487174

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 486912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		03/25/24 20:30	03/26/24 09:34	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/25/24 20:30	03/26/24 09:34	1

Lab Sample ID: LCS 410-486912/2-A
Matrix: Water
Analysis Batch: 487174

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 486912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4943		mg/L		99	80 - 120
Lithium	0.500	0.4928		mg/L		99	80 - 120

Lab Sample ID: MB 410-487054/1-A
Matrix: Water
Analysis Batch: 488208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 487054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		03/27/24 09:10	03/28/24 09:05	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/27/24 09:10	03/28/24 09:05	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-487054/2-A
Matrix: Water
Analysis Batch: 488208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 487054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5342		mg/L		107	80 - 120
Lithium	0.500	0.5165		mg/L		103	80 - 120

Lab Sample ID: MB 410-487068/1-A
Matrix: Water
Analysis Batch: 488387

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 487068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		03/26/24 09:52	03/28/24 15:54	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/26/24 09:52	03/28/24 15:54	1

Lab Sample ID: LCS 410-487068/2-A
Matrix: Water
Analysis Batch: 488387

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 487068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5548		mg/L		111	80 - 120
Lithium	0.500	0.5170		mg/L		103	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-486912/1-A
Matrix: Water
Analysis Batch: 487412

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 486912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/25/24 20:30	03/26/24 17:26	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/25/24 20:30	03/26/24 17:26	1
Barium	<0.000746		0.00200	0.000746	mg/L		03/25/24 20:30	03/26/24 17:26	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		03/25/24 20:30	03/26/24 17:26	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		03/25/24 20:30	03/26/24 17:26	1
Calcium	<0.0500		0.120	0.0500	mg/L		03/25/24 20:30	03/26/24 17:26	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/25/24 20:30	03/26/24 17:26	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/25/24 20:30	03/26/24 17:26	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/25/24 20:30	03/26/24 17:26	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/25/24 20:30	03/26/24 17:26	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/25/24 20:30	03/26/24 17:26	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/25/24 20:30	03/26/24 17:26	1

Lab Sample ID: MB 410-486912/1-A
Matrix: Water
Analysis Batch: 487428

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 486912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000156		0.000500	0.000156	mg/L		03/25/24 20:30	03/26/24 19:53	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-486912/2-A
Matrix: Water
Analysis Batch: 487412

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 486912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.1016		mg/L		102	80 - 120
Arsenic	0.500	0.4999		mg/L		100	85 - 120
Barium	0.500	0.5108		mg/L		102	80 - 120
Beryllium	0.0500	0.05053		mg/L		101	90 - 112
Cadmium	0.0500	0.05152		mg/L		103	86 - 113
Calcium	5.00	4.968		mg/L		99	85 - 120
Chromium	0.500	0.5035		mg/L		101	90 - 115
Iron	5.00	5.074		mg/L		101	88 - 119
Lead	0.0500	0.05090		mg/L		102	90 - 115
Molybdenum	0.0500	0.05070		mg/L		101	85 - 115
Selenium	0.100	0.1014		mg/L		101	80 - 120
Thallium	0.100	0.1020		mg/L		102	80 - 120

Lab Sample ID: LCS 410-486912/2-A
Matrix: Water
Analysis Batch: 487428

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 486912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.4907		mg/L		98	90 - 113

Lab Sample ID: MB 410-487054/1-A
Matrix: Water
Analysis Batch: 489389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 487054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/27/24 09:10	04/01/24 18:00	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/27/24 09:10	04/01/24 18:00	1
Barium	<0.000746		0.00200	0.000746	mg/L		03/27/24 09:10	04/01/24 18:00	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		03/27/24 09:10	04/01/24 18:00	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		03/27/24 09:10	04/01/24 18:00	1
Calcium	<0.0500	^3+	0.120	0.0500	mg/L		03/27/24 09:10	04/01/24 18:00	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/27/24 09:10	04/01/24 18:00	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		03/27/24 09:10	04/01/24 18:00	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/27/24 09:10	04/01/24 18:00	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/27/24 09:10	04/01/24 18:00	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/27/24 09:10	04/01/24 18:00	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/27/24 09:10	04/01/24 18:00	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/27/24 09:10	04/01/24 18:00	1

Lab Sample ID: LCS 410-487054/2-A
Matrix: Water
Analysis Batch: 489389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 487054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09950		mg/L		99	80 - 120
Arsenic	0.500	0.5061		mg/L		101	85 - 120
Barium	0.500	0.5111		mg/L		102	80 - 120
Beryllium	0.0500	0.04725		mg/L		94	90 - 112
Cadmium	0.0500	0.05137		mg/L		103	86 - 113

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-487054/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 489389
Prep Batch: 487054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	5.050	^3+	mg/L		101	85 - 120
Chromium	0.500	0.4977		mg/L		100	90 - 115
Cobalt	0.500	0.4978		mg/L		100	90 - 113
Iron	5.00	4.977		mg/L		100	88 - 119
Lead	0.0500	0.05050		mg/L		101	90 - 115
Molybdenum	0.0500	0.05156		mg/L		103	85 - 115
Selenium	0.100	0.09948		mg/L		99	80 - 120
Thallium	0.100	0.1001		mg/L		100	80 - 120

Lab Sample ID: MB 410-487068/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 489390
Prep Batch: 487068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.000119		0.000500	0.000119	mg/L		03/26/24 09:52	04/01/24 18:36	1

Lab Sample ID: MB 410-487068/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 489377
Prep Batch: 487068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/26/24 09:52	04/01/24 20:08	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/26/24 09:52	04/01/24 20:08	1
Barium	<0.000746		0.00200	0.000746	mg/L		03/26/24 09:52	04/01/24 20:08	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		03/26/24 09:52	04/01/24 20:08	1
Calcium	<0.0500		0.120	0.0500	mg/L		03/26/24 09:52	04/01/24 20:08	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/26/24 09:52	04/01/24 20:08	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		03/26/24 09:52	04/01/24 20:08	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/26/24 09:52	04/01/24 20:08	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/26/24 09:52	04/01/24 20:08	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:08	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/26/24 09:52	04/01/24 20:08	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/26/24 09:52	04/01/24 20:08	1

Lab Sample ID: LCS 410-487068/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 489390
Prep Batch: 487068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.05327		mg/L		107	90 - 112

Lab Sample ID: LCS 410-487068/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 489377
Prep Batch: 487068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.1075		mg/L		108	80 - 120
Arsenic	0.500	0.5253		mg/L		105	85 - 120
Barium	0.500	0.5477		mg/L		110	80 - 120
Cadmium	0.0500	0.05465		mg/L		109	86 - 113

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-487068/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 489377
Prep Batch: 487068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	5.219		mg/L		104	85 - 120
Chromium	0.500	0.5305		mg/L		106	90 - 115
Cobalt	0.500	0.5511		mg/L		110	90 - 113
Iron	5.00	5.275		mg/L		106	88 - 119
Lead	0.0500	0.05697		mg/L		114	90 - 115
Molybdenum	0.0500	0.05327		mg/L		107	85 - 115
Selenium	0.100	0.1025		mg/L		103	80 - 120
Thallium	0.100	0.1105		mg/L		110	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-487236/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 488666
Prep Batch: 487236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		03/29/24 09:20	03/29/24 12:37	1

Lab Sample ID: LCS 410-487236/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 488666
Prep Batch: 487236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0008765		mg/L		88	80 - 118

Lab Sample ID: MB 410-487244/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 488623
Prep Batch: 487244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		03/28/24 09:10	03/29/24 11:37	1

Lab Sample ID: LCS 410-487244/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 488623
Prep Batch: 487244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.001100		mg/L		110	80 - 118

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-485507/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 485507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			03/21/24 06:30	1

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 410-485507/2
Matrix: Water
Analysis Batch: 485507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			200	181.0		mg/L		91	90 - 110		

Lab Sample ID: 410-164568-4 MS
Matrix: Water
Analysis Batch: 485507

Client Sample ID: DGWC-48 KHCO3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	670		800	1498		mg/L		104	90 - 110		

Lab Sample ID: 410-164568-4 DU
Matrix: Water
Analysis Batch: 485507

Client Sample ID: DGWC-48 KHCO3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	670			750.0	F3	mg/L				11	10

Method: 9040C - pH

Lab Sample ID: LCS 410-486233/3
Matrix: Water
Analysis Batch: 486233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	6.990		S.U.		100	95 - 105		

Lab Sample ID: LCSD 410-486233/4
Matrix: Water
Analysis Batch: 486233

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			7.00	6.970		S.U.		100	95 - 105	0	3

HPLC/IC

Analysis Batch: 486454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Total/NA	Water	EPA 300.0 R2.1	
410-164568-1	DGWC-48 Inf	Total/NA	Water	EPA 300.0 R2.1	
410-164568-2	DGWC-48 Control	Total/NA	Water	EPA 300.0 R2.1	
410-164568-2	DGWC-48 Control	Total/NA	Water	EPA 300.0 R2.1	
410-164568-4	DGWC-48 KHCO3	Total/NA	Water	EPA 300.0 R2.1	
410-164568-4	DGWC-48 KHCO3	Total/NA	Water	EPA 300.0 R2.1	
410-164568-6	DGWC-48 FeSO4-7H2O	Total/NA	Water	EPA 300.0 R2.1	
410-164568-6	DGWC-48 FeSO4-7H2O	Total/NA	Water	EPA 300.0 R2.1	
MB 410-486454/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-486454/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-486454/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 486912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-4	DGWC-48 KHCO3	Dissolved	Water	3005A	
MB 410-486912/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-486912/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 487054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Dissolved	Water	3005A	
410-164568-3	DGWC-48 KHCO3 Inf	Dissolved	Water	3005A	
MB 410-487054/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-487054/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 487068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-2	DGWC-48 Control	Dissolved	Water	3005A	
410-164568-5	DGWC-48 FeSO4-7H2O Inf	Dissolved	Water	3005A	
410-164568-6	DGWC-48 FeSO4-7H2O	Dissolved	Water	3005A	
410-164568-7	DGWC-48 ADA Carbon	Dissolved	Water	3005A	
MB 410-487068/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-487068/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 487174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-4	DGWC-48 KHCO3	Dissolved	Water	6010D	486912
MB 410-486912/1-A	Method Blank	Total Recoverable	Water	6010D	486912
LCS 410-486912/2-A	Lab Control Sample	Total Recoverable	Water	6010D	486912

Prep Batch: 487236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-3	DGWC-48 KHCO3 Inf	Dissolved	Water	7470A	
410-164568-5	DGWC-48 FeSO4-7H2O Inf	Dissolved	Water	7470A	
MB 410-487236/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-487236/2-A	Lab Control Sample	Total/NA	Water	7470A	

Metals

Prep Batch: 487244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Dissolved	Water	7470A	
410-164568-2	DGWC-48 Control	Dissolved	Water	7470A	
410-164568-4	DGWC-48 KHCO3	Dissolved	Water	7470A	
410-164568-6	DGWC-48 FeSO4-7H2O	Dissolved	Water	7470A	
410-164568-7	DGWC-48 ADA Carbon	Dissolved	Water	7470A	
MB 410-487244/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-487244/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 487412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-4	DGWC-48 KHCO3	Dissolved	Water	6020B	486912
410-164568-4	DGWC-48 KHCO3	Dissolved	Water	6020B	486912
MB 410-486912/1-A	Method Blank	Total Recoverable	Water	6020B	486912
LCS 410-486912/2-A	Lab Control Sample	Total Recoverable	Water	6020B	486912

Analysis Batch: 487428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-4	DGWC-48 KHCO3	Dissolved	Water	6020B	486912
MB 410-486912/1-A	Method Blank	Total Recoverable	Water	6020B	486912
LCS 410-486912/2-A	Lab Control Sample	Total Recoverable	Water	6020B	486912

Analysis Batch: 488208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Dissolved	Water	6010D	487054
410-164568-3	DGWC-48 KHCO3 Inf	Dissolved	Water	6010D	487054
MB 410-487054/1-A	Method Blank	Total Recoverable	Water	6010D	487054
LCS 410-487054/2-A	Lab Control Sample	Total Recoverable	Water	6010D	487054

Analysis Batch: 488387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-2	DGWC-48 Control	Dissolved	Water	6010D	487068
410-164568-5	DGWC-48 FeSO4-7H2O Inf	Dissolved	Water	6010D	487068
410-164568-6	DGWC-48 FeSO4-7H2O	Dissolved	Water	6010D	487068
410-164568-7	DGWC-48 ADA Carbon	Dissolved	Water	6010D	487068
MB 410-487068/1-A	Method Blank	Total Recoverable	Water	6010D	487068
LCS 410-487068/2-A	Lab Control Sample	Total Recoverable	Water	6010D	487068

Analysis Batch: 488623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Dissolved	Water	7470A	487244
410-164568-2	DGWC-48 Control	Dissolved	Water	7470A	487244
410-164568-4	DGWC-48 KHCO3	Dissolved	Water	7470A	487244
410-164568-6	DGWC-48 FeSO4-7H2O	Dissolved	Water	7470A	487244
410-164568-7	DGWC-48 ADA Carbon	Dissolved	Water	7470A	487244
MB 410-487244/1-A	Method Blank	Total/NA	Water	7470A	487244
LCS 410-487244/2-A	Lab Control Sample	Total/NA	Water	7470A	487244

Analysis Batch: 488666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-3	DGWC-48 KHCO3 Inf	Dissolved	Water	7470A	487236
410-164568-5	DGWC-48 FeSO4-7H2O Inf	Dissolved	Water	7470A	487236

Metals (Continued)

Analysis Batch: 488666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-487236/1-A	Method Blank	Total/NA	Water	7470A	487236
LCS 410-487236/2-A	Lab Control Sample	Total/NA	Water	7470A	487236

Analysis Batch: 489377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-2	DGWC-48 Control	Dissolved	Water	6020B	487068
410-164568-5	DGWC-48 FeSO4-7H2O Inf	Dissolved	Water	6020B	487068
410-164568-6	DGWC-48 FeSO4-7H2O	Dissolved	Water	6020B	487068
410-164568-7	DGWC-48 ADA Carbon	Dissolved	Water	6020B	487068
MB 410-487068/1-A	Method Blank	Total Recoverable	Water	6020B	487068
LCS 410-487068/2-A	Lab Control Sample	Total Recoverable	Water	6020B	487068

Analysis Batch: 489389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Dissolved	Water	6020B	487054
410-164568-3	DGWC-48 KHCO3 Inf	Dissolved	Water	6020B	487054
MB 410-487054/1-A	Method Blank	Total Recoverable	Water	6020B	487054
LCS 410-487054/2-A	Lab Control Sample	Total Recoverable	Water	6020B	487054

Analysis Batch: 489390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-2	DGWC-48 Control	Dissolved	Water	6020B	487068
410-164568-5	DGWC-48 FeSO4-7H2O Inf	Dissolved	Water	6020B	487068
410-164568-6	DGWC-48 FeSO4-7H2O	Dissolved	Water	6020B	487068
410-164568-7	DGWC-48 ADA Carbon	Dissolved	Water	6020B	487068
MB 410-487068/1-A	Method Blank	Total Recoverable	Water	6020B	487068
LCS 410-487068/2-A	Lab Control Sample	Total Recoverable	Water	6020B	487068

Analysis Batch: 489709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-6	DGWC-48 FeSO4-7H2O	Dissolved	Water	6020B	487068

General Chemistry

Analysis Batch: 485507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Total/NA	Water	2540C - 2015	
410-164568-2	DGWC-48 Control	Total/NA	Water	2540C - 2015	
410-164568-4	DGWC-48 KHCO3	Total/NA	Water	2540C - 2015	
410-164568-6	DGWC-48 FeSO4-7H2O	Total/NA	Water	2540C - 2015	
MB 410-485507/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-485507/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
410-164568-4 MS	DGWC-48 KHCO3	Total/NA	Water	2540C - 2015	
410-164568-4 DU	DGWC-48 KHCO3	Total/NA	Water	2540C - 2015	

Analysis Batch: 486233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164568-1	DGWC-48 Inf	Total/NA	Water	9040C	
410-164568-2	DGWC-48 Control	Total/NA	Water	9040C	
410-164568-4	DGWC-48 KHCO3	Total/NA	Water	9040C	
410-164568-6	DGWC-48 FeSO4-7H2O	Total/NA	Water	9040C	

General Chemistry (Continued)

Analysis Batch: 486233 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-486233/3	Lab Control Sample	Total/NA	Water	9040C	
LCSD 410-486233/4	Lab Control Sample Dup	Total/NA	Water	9040C	

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-164568-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: DGWC-48 Inf
Lab Sample ID: 410-164568-1
Date Collected: 03/19/24 08:00
Matrix: Water
Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	486454	L4QM	ELLE	03/23/24 22:19
Total/NA	Analysis	EPA 300.0 R2.1		50	486454	L4QM	ELLE	03/23/24 22:31
Dissolved	Prep	3005A			487054	NU9R	ELLE	03/27/24 09:10
Dissolved	Analysis	6010D		1	488208	MT26	ELLE	03/28/24 09:42
Dissolved	Prep	3005A			487054	NU9R	ELLE	03/27/24 09:10
Dissolved	Analysis	6020B		1	489389	UCIG	ELLE	04/01/24 18:30
Dissolved	Prep	7470A			487244	NU9R	ELLE	03/28/24 09:10
Dissolved	Analysis	7470A		1	488623	UEFS	ELLE	03/29/24 09:46
Total/NA	Analysis	2540C - 2015		1	485507	M98K	ELLE	03/21/24 06:30 - 03/22/24 10:20 [1]
Total/NA	Analysis	9040C		1	486233	DI9Q	ELLE	03/21/24 17:41

Client Sample ID: DGWC-48 Control
Lab Sample ID: 410-164568-2
Date Collected: 03/19/24 08:15
Matrix: Water
Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	486454	L4QM	ELLE	03/23/24 23:08
Total/NA	Analysis	EPA 300.0 R2.1		50	486454	L4QM	ELLE	03/23/24 23:20
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6010D		1	488387	T8CQ	ELLE	03/28/24 16:45
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 19:38
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 20:16
Dissolved	Prep	7470A			487244	NU9R	ELLE	03/28/24 09:10
Dissolved	Analysis	7470A		1	488623	UEFS	ELLE	03/29/24 10:03
Total/NA	Analysis	2540C - 2015		1	485507	M98K	ELLE	03/21/24 06:30 - 03/22/24 10:20 [1]
Total/NA	Analysis	9040C		1	486233	DI9Q	ELLE	03/21/24 17:30

Client Sample ID: DGWC-48 KHCO3 Inf
Lab Sample ID: 410-164568-3
Date Collected: 03/19/24 08:20
Matrix: Water
Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			487054	NU9R	ELLE	03/27/24 09:10
Dissolved	Analysis	6010D		1	488208	MT26	ELLE	03/28/24 09:39
Dissolved	Prep	3005A			487054	NU9R	ELLE	03/27/24 09:10
Dissolved	Analysis	6020B		1	489389	UCIG	ELLE	04/01/24 18:28
Dissolved	Prep	7470A			487236	NU9R	ELLE	03/29/24 09:20
Dissolved	Analysis	7470A		1	488666	UEFS	ELLE	03/29/24 13:04

Client Sample ID: DGWC-48 KHCO3

Lab Sample ID: 410-164568-4

Date Collected: 03/19/24 08:30

Matrix: Water

Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	486454	L4QM	ELLE	03/23/24 23:32
Total/NA	Analysis	EPA 300.0 R2.1		50	486454	L4QM	ELLE	03/23/24 23:44
Dissolved	Prep	3005A			486912	UAMX	ELLE	03/25/24 20:30
Dissolved	Analysis	6010D		1	487174	MT26	ELLE	03/26/24 10:08
Dissolved	Prep	3005A			486912	UAMX	ELLE	03/25/24 20:30
Dissolved	Analysis	6020B		1	487412	UCIG	ELLE	03/26/24 17:54
Dissolved	Prep	3005A			486912	UAMX	ELLE	03/25/24 20:30
Dissolved	Analysis	6020B		5	487412	UCIG	ELLE	03/26/24 18:30
Dissolved	Prep	3005A			486912	UAMX	ELLE	03/25/24 20:30
Dissolved	Analysis	6020B		1	487428	UCIG	ELLE	03/26/24 20:15
Dissolved	Prep	7470A			487244	NU9R	ELLE	03/28/24 09:10
Dissolved	Analysis	7470A		1	488623	UEFS	ELLE	03/29/24 09:59
Total/NA	Analysis	2540C - 2015		1	485507	M98K	ELLE	03/21/24 06:30 - 03/22/24 10:20 [1]
Total/NA	Analysis	9040C		1	486233	DI9Q	ELLE	03/21/24 17:34

Client Sample ID: DGWC-48 FeSO4-7H2O Inf

Lab Sample ID: 410-164568-5

Date Collected: 03/19/24 08:40

Matrix: Water

Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6010D		1	488387	T8CQ	ELLE	03/28/24 16:48
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 19:40
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 20:18
Dissolved	Prep	7470A			487236	NU9R	ELLE	03/29/24 09:20
Dissolved	Analysis	7470A		1	488666	UEFS	ELLE	03/29/24 13:09

Client Sample ID: DGWC-48 FeSO4-7H2O

Lab Sample ID: 410-164568-6

Date Collected: 03/19/24 08:45

Matrix: Water

Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	486454	L4QM	ELLE	03/23/24 23:56
Total/NA	Analysis	EPA 300.0 R2.1		50	486454	L4QM	ELLE	03/24/24 00:08
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6010D		1	488387	T8CQ	ELLE	03/28/24 16:29
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 19:04
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489709	F7JF	ELLE	04/02/24 11:39
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 20:12

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-164568-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: DGWC-48 FeSO4-7H2O
Lab Sample ID: 410-164568-6

Date Collected: 03/19/24 08:45
Matrix: Water
Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	7470A			487244	NU9R	ELLE	03/28/24 09:10
Dissolved	Analysis	7470A		1	488623	UEFS	ELLE	03/29/24 10:01
Total/NA	Analysis	2540C - 2015		1	485507	M98K	ELLE	03/21/24 06:30 - 03/22/24 10:20 [1]
Total/NA	Analysis	9040C		1	486233	DI9Q	ELLE	03/21/24 17:38

Client Sample ID: DGWC-48 ADA Carbon
Lab Sample ID: 410-164568-7

Date Collected: 03/19/24 09:00
Matrix: Water
Date Received: 03/19/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6010D		1	488387	T8CQ	ELLE	03/28/24 16:41
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 19:36
Dissolved	Prep	3005A			487068	NU9R	ELLE	03/26/24 09:52
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 20:14
Dissolved	Prep	7470A			487244	NU9R	ELLE	03/28/24 09:10
Dissolved	Analysis	7470A		1	488623	UEFS	ELLE	03/29/24 09:56

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-164568-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-28-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	01-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-164568-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Terra Systems Inc
Job ID: 410-164568-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-164568-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-164568-1	DGWC-48 Inf	Water	03/19/24 08:00	03/19/24 17:15
410-164568-2	DGWC-48 Control	Water	03/19/24 08:15	03/19/24 17:15
410-164568-3	DGWC-48 KHCO3 Inf	Water	03/19/24 08:20	03/19/24 17:15
410-164568-4	DGWC-48 KHCO3	Water	03/19/24 08:30	03/19/24 17:15
410-164568-5	DGWC-48 FeSO4-7H2O Inf	Water	03/19/24 08:40	03/19/24 17:15
410-164568-6	DGWC-48 FeSO4-7H2O	Water	03/19/24 08:45	03/19/24 17:15
410-164568-7	DGWC-48 ADA Carbon	Water	03/19/24 09:00	03/19/24 17:15

Enviro[illegible] Request/Chain of Custody

410-164568 Chain of Custody

eurofins | Lancaster Laboratories Environmental

A _____ Sample # _____

| | | |

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-164568-1

Login Number: 164568

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Foreman, Kai

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Container preservation not listed on COC.
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

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JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-165417-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

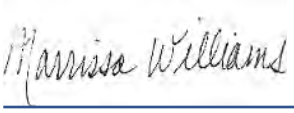
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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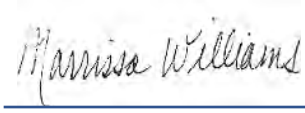

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 9
QC Sample Results 13
QC Association Summary 17
Lab Chronicle 19
Certification Summary 21
Method Summary 22
Sample Summary 23
Chain of Custody 24
Receipt Checklists 25

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-165417-1
Project/Site: WSP Plant McDonough CCR TS III

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-165417-1 Eurofins Lancaster Laboratories Environment

Job Narrative
410-165417-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/26/2024 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1DGWC-48 2 FeSO4 Day 14 (410-165417-4). The container labels list AP-1 DGWC-48 3 FeSO4 Day 14, while the COC lists AP-1 DGWC-48 2 FeSO4 Day 14. The client COC was followed for entry.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-165417-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 Influent Day 14 — Lab Sample ID: 410-165417-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	270		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.43	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.660		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.100		0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0175		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00572		0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00254		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	65.0		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.339		0.000500	0.000156	mg/L	1		6020B	Dissolved
Total Dissolved Solids	405		30.0	12.0	mg/L	1		2540C - 2015	Total/NA
pH	5.91	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.4	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 1 Control Day 14 — Lab Sample ID: 410-165417-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	346		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	10.6		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.474		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0194		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000309	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000173	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	67.6		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.184		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.959		0.0500	0.0200	mg/L	1		6020B	Dissolved
Total Dissolved Solids	584		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.54	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.6	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 14 — Lab Sample ID: 410-165417-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	349		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	12.3		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.452		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0121	J	0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0441		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000171	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	114		0.600	0.250	mg/L	5		6020B	Dissolved
Cobalt	0.0887		0.000500	0.000156	mg/L	1		6020B	Dissolved
Molybdenum	0.00140		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	853		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.84	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	20.9	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 14 — Lab Sample ID: 410-165417-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	586		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	11.6		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.497		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0202		0.00200	0.000746	mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 14 (Continued) — Lab Sample ID: 410-165417-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60.6		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.0730		0.000500	0.000156	mg/L	1		6020B	Dissolved
Molybdenum	0.00150		0.000500	0.000130	mg/L	1		6020B	Dissolved
Iron	0.0437	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Total Dissolved Solids	900		120	48.0	mg/L	1		2540C - 2015	Total/NA
pH	7.10	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.0	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 14 — Lab Sample ID: 410-165417-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	314		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	10.2		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.458		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0157	J	0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0211		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000178	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000767		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	50.9		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.117		0.000500	0.000156	mg/L	1		6020B	Dissolved
Molybdenum	0.000251	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	507		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.30	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.0	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-1DGWC-48 Influent Day 14
Lab Sample ID: 410-165417-1

Date Collected: 03/26/24 08:00
Matrix: Water
Date Received: 03/26/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			03/29/24 06:11	5
Sulfate	**270**		75.0	25.0	mg/L			03/29/24 06:23	50
Chloride	**6.43**	**J**	7.50	3.00	mg/L			03/29/24 06:11	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.660**		0.0500	0.0120	mg/L		03/29/24 08:05	04/01/24 12:26	1
Lithium	**0.100**		0.0500	0.0110	mg/L		03/29/24 08:05	04/01/24 12:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/29/24 08:05	04/01/24 19:39	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/29/24 08:05	04/01/24 19:39	1
Barium	**0.0175**		0.00200	0.000746	mg/L		03/29/24 08:05	04/01/24 19:39	1
Beryllium	**0.00572**		0.000500	0.000119	mg/L		03/29/24 08:05	04/01/24 17:04	1
Cadmium	**0.00254**		0.000500	0.000151	mg/L		03/29/24 08:05	04/01/24 19:39	1
Calcium	**65.0**		0.120	0.0500	mg/L		03/29/24 08:05	04/01/24 19:39	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/29/24 08:05	04/01/24 19:39	1
Cobalt	**0.339**		0.000500	0.000156	mg/L		03/29/24 08:05	04/01/24 19:39	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/29/24 08:05	04/01/24 19:39	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:39	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/29/24 08:05	04/01/24 19:39	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:39	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/29/24 08:05	04/01/24 19:39	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/02/24 10:55	04/03/24 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**405**		30.0	12.0	mg/L			03/27/24 06:47	1
pH (SW846 9040C)	**5.91**	**HF**	0.0100	0.0100	S.U.			03/28/24 00:02	1
Temperature (SW846 9040C)	**22.4**	**HF**	0.0100	0.0100	Degrees C			03/28/24 00:02	1

Client Sample ID: AP-1DGWC-48 1 Control Day 14
Lab Sample ID: 410-165417-2

Date Collected: 03/26/24 08:15
Matrix: Water
Date Received: 03/26/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			03/29/24 06:35	5
Sulfate	**346**		75.0	25.0	mg/L			03/29/24 06:47	50
Chloride	**10.6**		7.50	3.00	mg/L			03/29/24 06:35	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.474**		0.0500	0.0120	mg/L		03/29/24 08:05	04/01/24 12:23	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/29/24 08:05	04/01/24 12:23	1

Client: Terra Systems Inc
Job ID: 410-165417-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 1 Control Day 14

Lab Sample ID: 410-165417-2
Date Collected: 03/26/24 08:15
Matrix: Water
Date Received: 03/26/24 17:15

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/29/24 08:05	04/01/24 19:37	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/29/24 08:05	04/01/24 19:37	1
Barium	**0.0194**		0.00200	0.000746	mg/L		03/29/24 08:05	04/01/24 19:37	1
Beryllium	**0.000309**	**J**	0.000500	0.000119	mg/L		03/29/24 08:05	04/01/24 17:02	1
Cadmium	**0.000173**	**J**	0.000500	0.000151	mg/L		03/29/24 08:05	04/01/24 19:37	1
Calcium	**67.6**		0.120	0.0500	mg/L		03/29/24 08:05	04/01/24 19:37	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/29/24 08:05	04/01/24 19:37	1
Cobalt	**0.184**		0.000500	0.000156	mg/L		03/29/24 08:05	04/01/24 19:37	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/29/24 08:05	04/01/24 19:37	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:37	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/29/24 08:05	04/01/24 19:37	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:37	1
Iron	**0.959**		0.0500	0.0200	mg/L		03/29/24 08:05	04/01/24 17:02	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/02/24 10:55	04/03/24 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**584**		60.0	24.0	mg/L			03/27/24 06:47	1
pH (SW846 9040C)	**6.54**	**HF**	0.0100	0.0100	S.U.			03/27/24 23:57	1
Temperature (SW846 9040C)	**21.6**	**HF**	0.0100	0.0100	Degrees C			03/27/24 23:57	1

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 14

Lab Sample ID: 410-165417-3
Date Collected: 03/26/24 08:30
Matrix: Water
Date Received: 03/26/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			03/29/24 10:49	5
Sulfate	**349**		75.0	25.0	mg/L			03/29/24 11:25	50
Chloride	**12.3**		7.50	3.00	mg/L			03/29/24 10:49	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.452**		0.0500	0.0120	mg/L		03/29/24 08:05	04/01/24 12:33	1
Lithium	**0.0121**	**J**	0.0500	0.0110	mg/L		03/29/24 08:05	04/01/24 12:33	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/29/24 08:05	04/01/24 19:43	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/29/24 08:05	04/01/24 19:43	1
Barium	**0.0441**		0.00200	0.000746	mg/L		03/29/24 08:05	04/01/24 19:43	1
Beryllium	<0.000119	^+ *+	0.000500	0.000119	mg/L		03/29/24 08:05	04/01/24 19:43	1
Cadmium	**0.000171**	**J**	0.000500	0.000151	mg/L		03/29/24 08:05	04/01/24 19:43	1
Calcium	**114**		0.600	0.250	mg/L		03/29/24 08:05	04/01/24 17:58	5
Chromium	<0.000550		0.00200	0.000550	mg/L		03/29/24 08:05	04/01/24 19:43	1
Cobalt	**0.0887**		0.000500	0.000156	mg/L		03/29/24 08:05	04/01/24 19:43	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/29/24 08:05	04/01/24 19:43	1

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 14
Lab Sample ID: 410-165417-3

Date Collected: 03/26/24 08:30
Matrix: Water
Date Received: 03/26/24 17:15

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	**0.00140**		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:43	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/29/24 08:05	04/01/24 19:43	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:43	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/29/24 08:05	04/01/24 19:43	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/02/24 10:55	04/03/24 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**853**		60.0	24.0	mg/L			03/27/24 06:47	1
pH (SW846 9040C)	**6.84**	**HF**	0.0100	0.0100	S.U.			03/27/24 23:48	1
Temperature (SW846 9040C)	**20.9**	**HF**	0.0100	0.0100	Degrees C			03/27/24 23:48	1

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 14
Lab Sample ID: 410-165417-4

Date Collected: 03/26/24 08:45
Matrix: Water
Date Received: 03/26/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			03/29/24 11:37	5
Sulfate	**586**		75.0	25.0	mg/L			03/29/24 11:49	50
Chloride	**11.6**		7.50	3.00	mg/L			03/29/24 11:37	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.497**		0.0500	0.0120	mg/L		03/29/24 08:05	04/01/24 12:29	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/29/24 08:05	04/01/24 12:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/29/24 08:05	04/01/24 19:41	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/29/24 08:05	04/01/24 19:41	1
Barium	**0.0202**		0.00200	0.000746	mg/L		03/29/24 08:05	04/01/24 19:41	1
Beryllium	<0.000119	^+ *+	0.000500	0.000119	mg/L		03/29/24 08:05	04/01/24 19:41	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		03/29/24 08:05	04/01/24 19:41	1
Calcium	**60.6**		0.120	0.0500	mg/L		03/29/24 08:05	04/01/24 19:41	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/29/24 08:05	04/01/24 19:41	1
Cobalt	**0.0730**		0.000500	0.000156	mg/L		03/29/24 08:05	04/01/24 19:41	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/29/24 08:05	04/01/24 19:41	1
Molybdenum	**0.00150**		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:41	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/29/24 08:05	04/01/24 19:41	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:41	1
Iron	**0.0437**	**J**	0.0500	0.0200	mg/L		03/29/24 08:05	04/01/24 17:06	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/02/24 10:55	04/03/24 10:39	1

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 14
Lab Sample ID: 410-165417-4

Date Collected: 03/26/24 08:45
Matrix: Water
Date Received: 03/26/24 17:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	900		120	48.0	mg/L			03/27/24 06:47	1
pH (SW846 9040C)	7.10	HF	0.0100	0.0100	S.U.			03/27/24 23:53	1
Temperature (SW846 9040C)	21.0	HF	0.0100	0.0100	Degrees C			03/27/24 23:53	1

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 14
Lab Sample ID: 410-165417-5

Date Collected: 03/26/24 09:00
Matrix: Water
Date Received: 03/26/24 17:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			03/29/24 12:01	5
Sulfate	314		75.0	25.0	mg/L			03/29/24 12:13	50
Chloride	10.2		7.50	3.00	mg/L			03/29/24 12:01	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.458		0.0500	0.0120	mg/L		03/29/24 08:05	04/01/24 12:19	1
Lithium	0.0157	J	0.0500	0.0110	mg/L		03/29/24 08:05	04/01/24 12:19	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/29/24 08:05	04/01/24 19:35	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/29/24 08:05	04/01/24 19:35	1
Barium	0.0211		0.00200	0.000746	mg/L		03/29/24 08:05	04/01/24 19:35	1
Beryllium	0.000178	J	0.000500	0.000119	mg/L		03/29/24 08:05	04/01/24 17:00	1
Cadmium	0.000767		0.000500	0.000151	mg/L		03/29/24 08:05	04/01/24 19:35	1
Calcium	50.9		0.120	0.0500	mg/L		03/29/24 08:05	04/01/24 19:35	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/29/24 08:05	04/01/24 19:35	1
Cobalt	0.117		0.000500	0.000156	mg/L		03/29/24 08:05	04/01/24 19:35	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/29/24 08:05	04/01/24 19:35	1
Molybdenum	0.000251	J	0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:35	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/29/24 08:05	04/01/24 19:35	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 17:00	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/29/24 08:05	04/01/24 19:35	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/02/24 10:55	04/03/24 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	507		60.0	24.0	mg/L			03/27/24 06:47	1
pH (SW846 9040C)	6.30	HF	0.0100	0.0100	S.U.			03/28/24 00:06	1
Temperature (SW846 9040C)	22.0	HF	0.0100	0.0100	Degrees C			03/28/24 00:06	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-488350/5
Matrix: Water
Analysis Batch: 488350

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			03/28/24 23:31	1
Sulfate	<0.500		1.50	0.500	mg/L			03/28/24 23:31	1
Chloride	<0.600		1.50	0.600	mg/L			03/28/24 23:31	1

Lab Sample ID: LCS 410-488350/3
Matrix: Water
Analysis Batch: 488350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7648		mg/L		102	90 - 110
Sulfate	7.50	7.785		mg/L		104	90 - 110
Chloride	3.00	3.087		mg/L		103	90 - 110

Lab Sample ID: LCSD 410-488350/4
Matrix: Water
Analysis Batch: 488350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7930		mg/L		106	90 - 110	4	20
Sulfate	7.50	7.864		mg/L		105	90 - 110	1	20
Chloride	3.00	3.103		mg/L		103	90 - 110	1	20

Lab Sample ID: MB 410-488370/5
Matrix: Water
Analysis Batch: 488370

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			03/29/24 08:24	1
Sulfate	<0.500		1.50	0.500	mg/L			03/29/24 08:24	1
Chloride	<0.600		1.50	0.600	mg/L			03/29/24 08:24	1

Lab Sample ID: LCS 410-488370/3
Matrix: Water
Analysis Batch: 488370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7912		mg/L		105	90 - 110
Sulfate	7.50	7.965		mg/L		106	90 - 110
Chloride	3.00	3.119		mg/L		104	90 - 110

Lab Sample ID: LCSD 410-488370/4
Matrix: Water
Analysis Batch: 488370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7886		mg/L		105	90 - 110	0	20
Sulfate	7.50	8.020		mg/L		107	90 - 110	1	20
Chloride	3.00	3.136		mg/L		105	90 - 110	1	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-488128/1-A
Matrix: Water
Analysis Batch: 489221

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 488128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		03/29/24 08:05	04/01/24 11:20	1
Lithium	<0.0110		0.0500	0.0110	mg/L		03/29/24 08:05	04/01/24 11:20	1

Lab Sample ID: LCS 410-488128/2-A
Matrix: Water
Analysis Batch: 489221

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 488128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5153		mg/L		103	80 - 120
Lithium	0.500	0.5111		mg/L		102	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-488128/1-A
Matrix: Water
Analysis Batch: 489390

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 488128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.000119		0.000500	0.000119	mg/L		03/29/24 08:05	04/01/24 16:26	1

Lab Sample ID: MB 410-488128/1-A
Matrix: Water
Analysis Batch: 489377

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 488128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		03/29/24 08:05	04/01/24 19:30	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		03/29/24 08:05	04/01/24 19:30	1
Barium	<0.000746		0.00200	0.000746	mg/L		03/29/24 08:05	04/01/24 19:30	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		03/29/24 08:05	04/01/24 19:30	1
Calcium	<0.0500		0.120	0.0500	mg/L		03/29/24 08:05	04/01/24 19:30	1
Chromium	<0.000550		0.00200	0.000550	mg/L		03/29/24 08:05	04/01/24 19:30	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		03/29/24 08:05	04/01/24 19:30	1
Lead	<0.000120		0.000500	0.000120	mg/L		03/29/24 08:05	04/01/24 19:30	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:30	1
Selenium	<0.000278		0.00100	0.000278	mg/L		03/29/24 08:05	04/01/24 19:30	1
Thallium	<0.000130		0.000500	0.000130	mg/L		03/29/24 08:05	04/01/24 19:30	1
Iron	<0.0200		0.0500	0.0200	mg/L		03/29/24 08:05	04/01/24 19:30	1

Lab Sample ID: LCS 410-488128/2-A
Matrix: Water
Analysis Batch: 489390

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 488128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.05044		mg/L		101	90 - 112

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-488128/2-A
Matrix: Water
Analysis Batch: 489377

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 488128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.1045		mg/L		105	80 - 120
Arsenic	0.500	0.5115		mg/L		102	85 - 120
Barium	0.500	0.5341		mg/L		107	80 - 120
Cadmium	0.0500	0.05324		mg/L		106	86 - 113
Calcium	5.00	5.074		mg/L		101	85 - 120
Chromium	0.500	0.5229		mg/L		105	90 - 115
Cobalt	0.500	0.5454		mg/L		109	90 - 113
Lead	0.0500	0.05570		mg/L		111	90 - 115
Molybdenum	0.0500	0.05243		mg/L		105	85 - 115
Selenium	0.100	0.09984		mg/L		100	80 - 120
Thallium	0.100	0.1076		mg/L		108	80 - 120
Iron	5.00	5.178		mg/L		104	88 - 119

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-489619/1-A
Matrix: Water
Analysis Batch: 490232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/02/24 10:55	04/03/24 09:39	1

Lab Sample ID: LCS 410-489619/2-A
Matrix: Water
Analysis Batch: 490232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0008532		mg/L		85	80 - 118

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-487474/1
Matrix: Water
Analysis Batch: 487474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			03/27/24 06:47	1

Lab Sample ID: LCS 410-487474/2
Matrix: Water
Analysis Batch: 487474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	196.0		mg/L		98	90 - 110

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 410-165417-4 MS
Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 14
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 487474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	900		800	1660		mg/L		95	90 - 110		

Lab Sample ID: 410-165417-3 DU
Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 14
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 487474

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	853			871.0		mg/L				2	10

Lab Sample ID: 410-165417-4 DU
Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 14
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 487474

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	900			936.0		mg/L				4	10

Method: 9040C - pH

Lab Sample ID: LCS 410-488031/17
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 488031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.060		S.U.		101	95 - 105		

HPLC/IC

Analysis Batch: 488350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-1	AP-1DGWC-48 Influent Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-2	AP-1DGWC-48 1 Control Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-2	AP-1DGWC-48 1 Control Day 14	Total/NA	Water	EPA 300.0 R2.1	
MB 410-488350/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-488350/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-488350/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 488370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Total/NA	Water	EPA 300.0 R2.1	
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Total/NA	Water	EPA 300.0 R2.1	
MB 410-488370/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-488370/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-488370/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 488128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Dissolved	Water	3005A	
410-165417-2	AP-1DGWC-48 1 Control Day 14	Dissolved	Water	3005A	
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Dissolved	Water	3005A	
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Dissolved	Water	3005A	
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Dissolved	Water	3005A	
MB 410-488128/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-488128/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 489221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Dissolved	Water	6010D	488128
410-165417-2	AP-1DGWC-48 1 Control Day 14	Dissolved	Water	6010D	488128
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Dissolved	Water	6010D	488128
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Dissolved	Water	6010D	488128
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Dissolved	Water	6010D	488128
MB 410-488128/1-A	Method Blank	Total Recoverable	Water	6010D	488128
LCS 410-488128/2-A	Lab Control Sample	Total Recoverable	Water	6010D	488128

Analysis Batch: 489377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Dissolved	Water	6020B	488128
410-165417-2	AP-1DGWC-48 1 Control Day 14	Dissolved	Water	6020B	488128
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Dissolved	Water	6020B	488128
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Dissolved	Water	6020B	488128
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Dissolved	Water	6020B	488128
MB 410-488128/1-A	Method Blank	Total Recoverable	Water	6020B	488128
LCS 410-488128/2-A	Lab Control Sample	Total Recoverable	Water	6020B	488128

Metals

Analysis Batch: 489390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Dissolved	Water	6020B	488128
410-165417-2	AP-1DGWC-48 1 Control Day 14	Dissolved	Water	6020B	488128
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Dissolved	Water	6020B	488128
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Dissolved	Water	6020B	488128
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Dissolved	Water	6020B	488128
MB 410-488128/1-A	Method Blank	Total Recoverable	Water	6020B	488128
LCS 410-488128/2-A	Lab Control Sample	Total Recoverable	Water	6020B	488128

Prep Batch: 489619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Dissolved	Water	7470A	
410-165417-2	AP-1DGWC-48 1 Control Day 14	Dissolved	Water	7470A	
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Dissolved	Water	7470A	
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Dissolved	Water	7470A	
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Dissolved	Water	7470A	
MB 410-489619/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-489619/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 490232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Dissolved	Water	7470A	489619
410-165417-2	AP-1DGWC-48 1 Control Day 14	Dissolved	Water	7470A	489619
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Dissolved	Water	7470A	489619
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Dissolved	Water	7470A	489619
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Dissolved	Water	7470A	489619
MB 410-489619/1-A	Method Blank	Total/NA	Water	7470A	489619
LCS 410-489619/2-A	Lab Control Sample	Total/NA	Water	7470A	489619

General Chemistry

Analysis Batch: 487474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Total/NA	Water	2540C - 2015	
410-165417-2	AP-1DGWC-48 1 Control Day 14	Total/NA	Water	2540C - 2015	
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Total/NA	Water	2540C - 2015	
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Total/NA	Water	2540C - 2015	
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Total/NA	Water	2540C - 2015	
MB 410-487474/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-487474/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
410-165417-4 MS	AP-1DGWC-48 2 FeSO4 Day 14	Total/NA	Water	2540C - 2015	
410-165417-3 DU	AP-1DGWC-48 2 KHCO3 Day 14	Total/NA	Water	2540C - 2015	
410-165417-4 DU	AP-1DGWC-48 2 FeSO4 Day 14	Total/NA	Water	2540C - 2015	

Analysis Batch: 488031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-165417-1	AP-1DGWC-48 Influent Day 14	Total/NA	Water	9040C	
410-165417-2	AP-1DGWC-48 1 Control Day 14	Total/NA	Water	9040C	
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Total/NA	Water	9040C	
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Total/NA	Water	9040C	
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Total/NA	Water	9040C	
LCS 410-488031/17	Lab Control Sample	Total/NA	Water	9040C	

Client Sample ID: AP-1DGWC-48 Influent Day 14
Lab Sample ID: 410-165417-1

Date Collected: 03/26/24 08:00
Matrix: Water
Date Received: 03/26/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	488350	W7FX	ELLE	03/29/24 06:11
Total/NA	Analysis	EPA 300.0 R2.1		50	488350	W7FX	ELLE	03/29/24 06:23
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6010D		1	489221	MT26	ELLE	04/01/24 12:26
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 17:04
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 19:39
Dissolved	Prep	7470A			489619	NU9R	ELLE	04/02/24 10:55
Dissolved	Analysis	7470A		1	490232	UEFS	ELLE	04/03/24 10:34
Total/NA	Analysis	2540C - 2015		1	487474	M98K	ELLE	03/27/24 06:47 - 03/28/24 11:00 [1]
Total/NA	Analysis	9040C		1	488031	DI9Q	ELLE	03/28/24 00:02

Client Sample ID: AP-1DGWC-48 1 Control Day 14
Lab Sample ID: 410-165417-2

Date Collected: 03/26/24 08:15
Matrix: Water
Date Received: 03/26/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	488350	W7FX	ELLE	03/29/24 06:35
Total/NA	Analysis	EPA 300.0 R2.1		50	488350	W7FX	ELLE	03/29/24 06:47
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6010D		1	489221	MT26	ELLE	04/01/24 12:23
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 17:02
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 19:37
Dissolved	Prep	7470A			489619	NU9R	ELLE	04/02/24 10:55
Dissolved	Analysis	7470A		1	490232	UEFS	ELLE	04/03/24 10:25
Total/NA	Analysis	2540C - 2015		1	487474	M98K	ELLE	03/27/24 06:47 - 03/28/24 11:00 [1]
Total/NA	Analysis	9040C		1	488031	DI9Q	ELLE	03/27/24 23:57

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 14
Lab Sample ID: 410-165417-3

Date Collected: 03/26/24 08:30
Matrix: Water
Date Received: 03/26/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	488370	W7FX	ELLE	03/29/24 10:49
Total/NA	Analysis	EPA 300.0 R2.1		50	488370	W7FX	ELLE	03/29/24 11:25
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6010D		1	489221	MT26	ELLE	04/01/24 12:33
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		5	489390	UCIG	ELLE	04/01/24 17:58
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 19:43

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-165417-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 14
Lab Sample ID: 410-165417-3

Date Collected: 03/26/24 08:30
Matrix: Water
Date Received: 03/26/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	7470A			489619	NU9R	ELLE	04/02/24 10:55
Dissolved	Analysis	7470A		1	490232	UEFS	ELLE	04/03/24 10:14
Total/NA	Analysis	2540C - 2015		1	487474	M98K	ELLE	03/27/24 06:47 - 03/28/24 11:00 [1]
Total/NA	Analysis	9040C		1	488031	DI9Q	ELLE	03/27/24 23:48

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 14
Lab Sample ID: 410-165417-4

Date Collected: 03/26/24 08:45
Matrix: Water
Date Received: 03/26/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	488370	W7FX	ELLE	03/29/24 11:37
Total/NA	Analysis	EPA 300.0 R2.1		50	488370	W7FX	ELLE	03/29/24 11:49
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6010D		1	489221	MT26	ELLE	04/01/24 12:29
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 17:06
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 19:41
Dissolved	Prep	7470A			489619	NU9R	ELLE	04/02/24 10:55
Dissolved	Analysis	7470A		1	490232	UEFS	ELLE	04/03/24 10:39
Total/NA	Analysis	2540C - 2015		1	487474	M98K	ELLE	03/27/24 06:47 - 03/28/24 11:00 [1]
Total/NA	Analysis	9040C		1	488031	DI9Q	ELLE	03/27/24 23:53

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 14
Lab Sample ID: 410-165417-5

Date Collected: 03/26/24 09:00
Matrix: Water
Date Received: 03/26/24 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	488370	W7FX	ELLE	03/29/24 12:01
Total/NA	Analysis	EPA 300.0 R2.1		50	488370	W7FX	ELLE	03/29/24 12:13
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6010D		1	489221	MT26	ELLE	04/01/24 12:19
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489390	UCIG	ELLE	04/01/24 17:00
Dissolved	Prep	3005A			488128	NU9R	ELLE	03/29/24 08:05
Dissolved	Analysis	6020B		1	489377	UCIG	ELLE	04/01/24 19:35
Dissolved	Prep	7470A			489619	NU9R	ELLE	04/02/24 10:55
Dissolved	Analysis	7470A		1	490232	UEFS	ELLE	04/03/24 09:58
Total/NA	Analysis	2540C - 2015		1	487474	M98K	ELLE	03/27/24 06:47 - 03/28/24 11:00 [1]
Total/NA	Analysis	9040C		1	488031	DI9Q	ELLE	03/28/24 00:06

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-165417-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Georgia (DW)	State	C048	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C - 2015		Water	Total Dissolved Solids
6010D	3005A	Water	Boron
6010D	3005A	Water	Lithium
6020B	3005A	Water	Antimony
6020B	3005A	Water	Arsenic
6020B	3005A	Water	Barium
6020B	3005A	Water	Beryllium
6020B	3005A	Water	Cadmium
6020B	3005A	Water	Calcium
6020B	3005A	Water	Chromium
6020B	3005A	Water	Cobalt
6020B	3005A	Water	Iron
6020B	3005A	Water	Lead
6020B	3005A	Water	Molybdenum
6020B	3005A	Water	Selenium
6020B	3005A	Water	Thallium
7470A	7470A	Water	Mercury
9040C		Water	pH
9040C		Water	Temperature
EPA 300.0 R2.1		Water	Chloride
EPA 300.0 R2.1		Water	Fluoride
EPA 300.0 R2.1		Water	Sulfate

Method Summary

Client: Terra Systems Inc
Job ID: 410-165417-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-165417-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-165417-1	AP-1DGWC-48 Influent Day 14	Water	03/26/24 08:00	03/26/24 17:15
410-165417-2	AP-1DGWC-48 1 Control Day 14	Water	03/26/24 08:15	03/26/24 17:15
410-165417-3	AP-1DGWC-48 2 KHCO3 Day 14	Water	03/26/24 08:30	03/26/24 17:15
410-165417-4	AP-1DGWC-48 2 FeSO4 Day 14	Water	03/26/24 08:45	03/26/24 17:15
410-165417-5	AP-1DGWC-48 4 ADA Carbon Day 14	Water	03/26/24 09:00	03/26/24 17:15

Lysis Request/Chain of Custody

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410-165417 Chain of Custody

Sample # _____

Client: Terra Systems, Inc.			
Project Name/#: WSP Plant McDonough CCR TS III	Site ID #: Srymna, GA		
Project Manager: Michael D. Lee	P.O. #: 232720 3-26-24		
Sampler: Michael D. Lee	PWSID #:		
Phone #: 302-798-9553	Quote #: 41016315		
State where samples were collected: ___ GA	For Compliance: Yes ☐ No ☑		

| Sample Identification | Collection Date | Collection Time | Grab | Composite | Matrix: Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☑ NPDES ☐ Surface ☐ | Other: | Total # of Containers | Analyses Requested: Preservation Codes N | N | N | - | - | | |

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-165417-1

Login Number: 165417

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 4/22/2024 2:23:27 PM

JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-166326-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

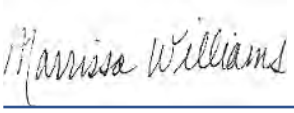
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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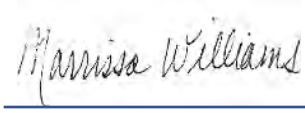

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 9
QC Sample Results 14
QC Association Summary 17
Lab Chronicle 19
Certification Summary 22
Method Summary 23
Sample Summary 24
Chain of Custody 25
Receipt Checklists 26

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-166326-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/2/2024 4:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1DGWC-48 2 FeSO4 Day 21 (410-166326-5). The container labels list AP-1 DGWC-48 3 FeSO4 Day 21, while the COC lists AP-1 DGWC-48 2 FeSO4 Day 21.

Insufficient sample volume was provided for the following sample for the TDS analysis: AP-1DGWC-48 2l KHCO3 Day 21 (410-166326-3). The 250 ml container had 3 oz (~80ml) and the 50 ml bottle had 40 ml.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Project/Site: WSP Plant McDonough CCR TS III

Job ID: 410-166326-1

Client Sample ID: AP-1DGWC-48 Influent Day 21 — Lab Sample ID: 410-166326-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	279		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.86	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.651		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0968		0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0248		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00812		0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00242		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	59.4		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.291		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0461	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Lead	0.000402	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Thallium	0.000366	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Mercury	0.0000840	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved
Total Dissolved Solids	448		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	5.99	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.7	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 1 Control Day 21 — Lab Sample ID: 410-166326-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.587		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0203		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000232	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000962		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	58.6		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.138		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0262	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.00104		0.000500	0.000130	mg/L	1		6020B	Dissolved
Thallium	0.000169	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Mercury	0.0000852	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved

Client Sample ID: AP-1DGWC-48 2I KHCO3 Day 21 — Lab Sample ID: 410-166326-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.494	J	1.00	0.450	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	277		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.86	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.618		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0973		0.0500	0.0110	mg/L	1		6010D	Dissolved
Arsenic	0.00109	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0142		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00187		0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00137		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	56.3		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.262		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0484	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Thallium	0.000350	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Mercury	0.000106	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved
pH	8.22	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.2	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 21 — Lab Sample ID: 410-166326-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	338		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	9.62		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.494		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0410		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000135	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000211	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	97.1		1.20	0.500	mg/L	10		6020B	Dissolved
Cobalt	0.0435		0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000125	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.00299		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	834		120	48.0	mg/L	1		2540C - 2015	Total/NA
pH	6.85	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.4	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 21 — Lab Sample ID: 410-166326-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	398		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	8.16		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.570		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0165		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000193	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Calcium	41.0		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.0432		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.244		0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.000801		0.000500	0.000130	mg/L	1		6020B	Dissolved
Mercury	0.0000882	J	0.000200	0.0000790	mg/L	1		7470A	Dissolved
Total Dissolved Solids	671		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.58	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.2	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 21 — Lab Sample ID: 410-166326-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	328		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	9.35		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.472		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0179		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000165	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000498	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	46.7		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.0957		0.000500	0.000156	mg/L	1		6020B	Dissolved
Molybdenum	0.000206	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	504		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.40	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	21.4	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-1DGWC-48 Influent Day 21

Lab Sample ID: 410-166326-1
Date Collected: 04/02/24 08:00
Matrix: Water
Date Received: 04/02/24 16:48

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/05/24 23:02	5
Sulfate	**279**		75.0	25.0	mg/L			04/05/24 23:36	50
Chloride	**6.86**	**J**	7.50	3.00	mg/L			04/05/24 23:02	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.651**		0.0500	0.0120	mg/L		04/05/24 09:00	04/08/24 08:39	1
Lithium	**0.0968**		0.0500	0.0110	mg/L		04/05/24 09:00	04/08/24 08:39	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/05/24 09:00	04/21/24 16:52	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/05/24 09:00	04/21/24 16:52	1
Barium	**0.0248**		0.00200	0.000746	mg/L		04/05/24 09:00	04/21/24 16:52	1
Beryllium	**0.00812**		0.000500	0.000119	mg/L		04/05/24 09:00	04/21/24 16:52	1
Cadmium	**0.00242**		0.000500	0.000151	mg/L		04/05/24 09:00	04/21/24 16:52	1
Calcium	**59.4**		0.120	0.0500	mg/L		04/05/24 09:00	04/21/24 16:52	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/05/24 09:00	04/21/24 16:52	1
Cobalt	**0.291**		0.000500	0.000156	mg/L		04/05/24 09:00	04/21/24 16:52	1
Iron	**0.0461**	**J**	0.0500	0.0200	mg/L		04/05/24 09:00	04/21/24 16:52	1
Lead	**0.000402**	**J**	0.000500	0.000120	mg/L		04/05/24 09:00	04/21/24 16:52	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:52	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/05/24 09:00	04/21/24 16:52	1
Thallium	**0.000366**	**J**	0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:52	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0000840**	**J**	0.000200	0.0000790	mg/L		04/05/24 08:38	04/05/24 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**448**		60.0	24.0	mg/L			04/04/24 06:53	1
pH (SW846 9040C)	**5.99**	**HF**	0.0100	0.0100	S.U.			04/04/24 22:41	1
Temperature (SW846 9040C)	**21.7**	**HF**	0.0100	0.0100	Degrees C			04/04/24 22:41	1

Client Sample ID: AP-1DGWC-48 1 Control Day 21

Lab Sample ID: 410-166326-2
Date Collected: 04/02/24 08:15
Matrix: Water
Date Received: 04/02/24 16:48

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.587**		0.0500	0.0120	mg/L		04/05/24 09:00	04/08/24 08:52	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/05/24 09:00	04/08/24 08:52	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/05/24 09:00	04/21/24 17:00	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/05/24 09:00	04/21/24 17:00	1
Barium	**0.0203**		0.00200	0.000746	mg/L		04/05/24 09:00	04/21/24 17:00	1
Beryllium	**0.000232**	**J**	0.000500	0.000119	mg/L		04/05/24 09:00	04/21/24 17:00	1

Client Sample ID: AP-1DGWC-48 1 Control Day 21
Lab Sample ID: 410-166326-2

Date Collected: 04/02/24 08:15
Matrix: Water
Date Received: 04/02/24 16:48

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000962		0.000500	0.000151	mg/L		04/05/24 09:00	04/21/24 17:00	1
Calcium	58.6		0.120	0.0500	mg/L		04/05/24 09:00	04/21/24 17:00	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/05/24 09:00	04/21/24 17:00	1
Cobalt	0.138		0.000500	0.000156	mg/L		04/05/24 09:00	04/21/24 17:00	1
Iron	0.0262	J	0.0500	0.0200	mg/L		04/05/24 09:00	04/21/24 17:00	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/05/24 09:00	04/21/24 17:00	1
Molybdenum	0.00104		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 17:00	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/05/24 09:00	04/21/24 17:00	1
Thallium	0.000169	J	0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 17:00	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000852	J	0.000200	0.0000790	mg/L		04/05/24 08:38	04/05/24 14:22	1

Client Sample ID: AP-1DGWC-48 2I KHCO3 Day 21
Lab Sample ID: 410-166326-3

Date Collected: 04/02/24 08:30
Matrix: Water
Date Received: 04/02/24 16:48

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.494	J	1.00	0.450	mg/L			04/05/24 23:48	5
Sulfate	277		75.0	25.0	mg/L			04/06/24 00:00	50
Chloride	6.86	J	7.50	3.00	mg/L			04/05/24 23:48	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.618		0.0500	0.0120	mg/L		04/05/24 09:00	04/08/24 08:49	1
Lithium	0.0973		0.0500	0.0110	mg/L		04/05/24 09:00	04/08/24 08:49	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/05/24 09:00	04/21/24 16:58	1
Arsenic	0.00109	J	0.00200	0.000680	mg/L		04/05/24 09:00	04/21/24 16:58	1
Barium	0.0142		0.00200	0.000746	mg/L		04/05/24 09:00	04/21/24 16:58	1
Beryllium	0.00187		0.000500	0.000119	mg/L		04/05/24 09:00	04/21/24 16:58	1
Cadmium	0.00137		0.000500	0.000151	mg/L		04/05/24 09:00	04/21/24 16:58	1
Calcium	56.3		0.120	0.0500	mg/L		04/05/24 09:00	04/21/24 16:58	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/05/24 09:00	04/21/24 16:58	1
Cobalt	0.262		0.000500	0.000156	mg/L		04/05/24 09:00	04/21/24 16:58	1
Iron	0.0484	J	0.0500	0.0200	mg/L		04/05/24 09:00	04/21/24 16:58	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/05/24 09:00	04/21/24 16:58	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:58	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/05/24 09:00	04/21/24 16:58	1
Thallium	0.000350	J	0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:58	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000106	J	0.000200	0.0000790	mg/L		04/05/24 08:38	04/21/24 14:31	1

Client Sample ID: AP-1DGWC-48 2l KHCO3 Day 21
Lab Sample ID: 410-166326-3

Date Collected: 04/02/24 08:30
Matrix: Water
Date Received: 04/02/24 16:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	8.22	HF	0.0100	0.0100	S.U.			04/04/24 22:36	1
Temperature (SW846 9040C)	22.2	HF	0.0100	0.0100	Degrees C			04/04/24 22:36	1

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 21
Lab Sample ID: 410-166326-4

Date Collected: 04/02/24 08:45
Matrix: Water
Date Received: 04/02/24 16:48

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/06/24 00:11	5
Sulfate	338		75.0	25.0	mg/L			04/06/24 00:23	50
Chloride	9.62		7.50	3.00	mg/L			04/06/24 00:11	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.494		0.0500	0.0120	mg/L		04/05/24 09:00	04/08/24 08:46	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/05/24 09:00	04/08/24 08:46	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/05/24 09:00	04/21/24 16:56	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/05/24 09:00	04/21/24 16:56	1
Barium	0.0410		0.00200	0.000746	mg/L		04/05/24 09:00	04/21/24 16:56	1
Beryllium	0.000135	J	0.000500	0.000119	mg/L		04/05/24 09:00	04/21/24 16:56	1
Cadmium	0.000211	J	0.000500	0.000151	mg/L		04/05/24 09:00	04/21/24 16:56	1
Calcium	97.1		1.20	0.500	mg/L		04/05/24 09:00	04/22/24 09:02	10
Chromium	<0.000550		0.00200	0.000550	mg/L		04/05/24 09:00	04/21/24 16:56	1
Cobalt	0.0435		0.000500	0.000156	mg/L		04/05/24 09:00	04/21/24 16:56	1
Iron	<0.0200		0.0500	0.0200	mg/L		04/05/24 09:00	04/21/24 16:56	1
Lead	0.000125	J	0.000500	0.000120	mg/L		04/05/24 09:00	04/21/24 16:56	1
Molybdenum	0.00299		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:56	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/05/24 09:00	04/21/24 16:56	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:56	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/05/24 08:38	04/05/24 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	834		120	48.0	mg/L			04/04/24 06:53	1
pH (SW846 9040C)	6.85	HF	0.0100	0.0100	S.U.			04/04/24 22:27	1
Temperature (SW846 9040C)	21.4	HF	0.0100	0.0100	Degrees C			04/04/24 22:27	1

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 21
Lab Sample ID: 410-166326-5

Date Collected: 04/02/24 09:00
Matrix: Water
Date Received: 04/02/24 16:48

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/06/24 00:34	5

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 21
Lab Sample ID: 410-166326-5

Date Collected: 04/02/24 09:00
Matrix: Water
Date Received: 04/02/24 16:48

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**398**		75.0	25.0	mg/L			04/06/24 00:46	50
Chloride	**8.16**		7.50	3.00	mg/L			04/06/24 00:34	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.570**		0.0500	0.0120	mg/L		04/05/24 09:00	04/08/24 08:43	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/05/24 09:00	04/08/24 08:43	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/05/24 09:00	04/21/24 16:54	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/05/24 09:00	04/21/24 16:54	1
Barium	**0.0165**		0.00200	0.000746	mg/L		04/05/24 09:00	04/21/24 16:54	1
Beryllium	**0.000193**	**J**	0.000500	0.000119	mg/L		04/05/24 09:00	04/21/24 16:54	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		04/05/24 09:00	04/21/24 16:54	1
Calcium	**41.0**		0.120	0.0500	mg/L		04/05/24 09:00	04/21/24 16:54	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/05/24 09:00	04/21/24 16:54	1
Cobalt	**0.0432**		0.000500	0.000156	mg/L		04/05/24 09:00	04/21/24 16:54	1
Iron	**0.244**		0.0500	0.0200	mg/L		04/05/24 09:00	04/21/24 16:54	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/05/24 09:00	04/21/24 16:54	1
Molybdenum	**0.000801**		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:54	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/05/24 09:00	04/21/24 16:54	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:54	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0000882**	**J**	0.000200	0.0000790	mg/L		04/05/24 08:38	04/05/24 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**671**		60.0	24.0	mg/L			04/04/24 06:53	1
pH (SW846 9040C)	**6.58**	**HF**	0.0100	0.0100	S.U.			04/04/24 22:32	1
Temperature (SW846 9040C)	**22.2**	**HF**	0.0100	0.0100	Degrees C			04/04/24 22:32	1

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 21
Lab Sample ID: 410-166326-6

Date Collected: 04/02/24 09:15
Matrix: Water
Date Received: 04/02/24 16:48

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/06/24 00:57	5
Sulfate	**328**		75.0	25.0	mg/L			04/06/24 01:09	50
Chloride	**9.35**		7.50	3.00	mg/L			04/06/24 00:57	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.472**		0.0500	0.0120	mg/L		04/05/24 09:00	04/08/24 08:56	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/05/24 09:00	04/08/24 08:56	1

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 21
Lab Sample ID: 410-166326-6
Date Collected: 04/02/24 09:15
Matrix: Water
Date Received: 04/02/24 16:48

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/05/24 09:00	04/21/24 17:04	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/05/24 09:00	04/21/24 17:04	1
Barium	**0.0179**		0.00200	0.000746	mg/L		04/05/24 09:00	04/21/24 17:04	1
Beryllium	**0.000165**	**J**	0.000500	0.000119	mg/L		04/05/24 09:00	04/21/24 17:04	1
Cadmium	**0.000498**	**J**	0.000500	0.000151	mg/L		04/05/24 09:00	04/21/24 17:04	1
Calcium	**46.7**		0.120	0.0500	mg/L		04/05/24 09:00	04/21/24 17:04	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/05/24 09:00	04/21/24 17:04	1
Cobalt	**0.0957**		0.000500	0.000156	mg/L		04/05/24 09:00	04/21/24 17:04	1
Iron	<0.0200		0.0500	0.0200	mg/L		04/05/24 09:00	04/21/24 17:04	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/05/24 09:00	04/21/24 17:04	1
Molybdenum	**0.000206**	**J**	0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 17:04	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/05/24 09:00	04/21/24 17:04	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 17:04	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/05/24 08:38	04/05/24 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**504**		60.0	24.0	mg/L			04/04/24 06:53	1
pH (SW846 9040C)	**6.40**	**HF**	0.0100	0.0100	S.U.			04/04/24 22:45	1
Temperature (SW846 9040C)	**21.4**	**HF**	0.0100	0.0100	Degrees C			04/04/24 22:45	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-491326/5
Matrix: Water
Analysis Batch: 491326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			04/05/24 21:41	1
Sulfate	<0.500		1.50	0.500	mg/L			04/05/24 21:41	1
Chloride	<0.600		1.50	0.600	mg/L			04/05/24 21:41	1

Lab Sample ID: LCS 410-491326/3
Matrix: Water
Analysis Batch: 491326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7221		mg/L		96	90 - 110
Sulfate	7.50	7.182		mg/L		96	90 - 110
Chloride	3.00	2.867		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-491326/4
Matrix: Water
Analysis Batch: 491326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7202		mg/L		96	90 - 110	0	20
Sulfate	7.50	7.174		mg/L		96	90 - 110	0	20
Chloride	3.00	2.864		mg/L		95	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-490658/1-A
Matrix: Water
Analysis Batch: 491890

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 490658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		04/05/24 09:00	04/08/24 08:06	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/05/24 09:00	04/08/24 08:06	1

Lab Sample ID: LCS 410-490658/2-A
Matrix: Water
Analysis Batch: 491890

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 490658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5190		mg/L		104	83 - 119
Lithium	0.500	0.5137		mg/L		103	88 - 113

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-490658/1-A
Matrix: Water
Analysis Batch: 496758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 490658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/05/24 09:00	04/21/24 16:48	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/05/24 09:00	04/21/24 16:48	1
Barium	<0.000746		0.00200	0.000746	mg/L		04/05/24 09:00	04/21/24 16:48	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-490658/1-A
Matrix: Water
Analysis Batch: 496758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 490658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/05/24 09:00	04/21/24 16:48	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		04/05/24 09:00	04/21/24 16:48	1
Calcium	<0.0500		0.120	0.0500	mg/L		04/05/24 09:00	04/21/24 16:48	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/05/24 09:00	04/21/24 16:48	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		04/05/24 09:00	04/21/24 16:48	1
Iron	<0.0200		0.0500	0.0200	mg/L		04/05/24 09:00	04/21/24 16:48	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/05/24 09:00	04/21/24 16:48	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:48	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/05/24 09:00	04/21/24 16:48	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/05/24 09:00	04/21/24 16:48	1

Lab Sample ID: LCS 410-490658/2-A
Matrix: Water
Analysis Batch: 496758

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 490658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09541		mg/L		95	90 - 115
Arsenic	0.500	0.4843		mg/L		97	90 - 109
Barium	0.500	0.4772		mg/L		95	90 - 113
Beryllium	0.0500	0.04997		mg/L		100	82 - 120
Cadmium	0.0500	0.04799		mg/L		96	90 - 112
Calcium	5.00	4.862		mg/L		97	90 - 112
Chromium	0.500	0.4706		mg/L		94	90 - 110
Cobalt	0.500	0.4839		mg/L		97	90 - 110
Iron	5.00	4.839		mg/L		97	90 - 111
Lead	0.0500	0.04835		mg/L		97	90 - 110
Molybdenum	0.0500	0.04798		mg/L		96	90 - 115
Selenium	0.100	0.09564		mg/L		96	90 - 110
Thallium	0.100	0.09511		mg/L		95	90 - 110

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-490586/1-A
Matrix: Water
Analysis Batch: 491246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/05/24 08:38	04/05/24 13:53	1

Lab Sample ID: LCS 410-490586/2-A
Matrix: Water
Analysis Batch: 491246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0009277		mg/L		93	80 - 118

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-490503/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 490503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			04/04/24 06:53	1

Lab Sample ID: LCS 410-490503/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 490503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	193.0		mg/L		97	90 - 110

Method: 9040C - pH

Lab Sample ID: LCS 410-491181/17
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 491181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.010		S.U.		100	95 - 105

Lab Sample ID: LCSD 410-491181/18
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 491181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	7.00	6.990		S.U.		100	95 - 105	0	3

HPLC/IC

Analysis Batch: 491326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-1	AP-1DGWC-48 Influent Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Total/NA	Water	EPA 300.0 R2.1	
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Total/NA	Water	EPA 300.0 R2.1	
MB 410-491326/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-491326/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-491326/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 490586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Dissolved	Water	7470A	
410-166326-2	AP-1DGWC-48 1 Control Day 21	Dissolved	Water	7470A	
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Dissolved	Water	7470A	
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Dissolved	Water	7470A	
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Dissolved	Water	7470A	
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Dissolved	Water	7470A	
MB 410-490586/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-490586/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 490658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Dissolved	Water	3005A	
410-166326-2	AP-1DGWC-48 1 Control Day 21	Dissolved	Water	3005A	
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Dissolved	Water	3005A	
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Dissolved	Water	3005A	
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Dissolved	Water	3005A	
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Dissolved	Water	3005A	
MB 410-490658/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-490658/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 491246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Dissolved	Water	7470A	490586
410-166326-2	AP-1DGWC-48 1 Control Day 21	Dissolved	Water	7470A	490586
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Dissolved	Water	7470A	490586
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Dissolved	Water	7470A	490586
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Dissolved	Water	7470A	490586
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Dissolved	Water	7470A	490586
MB 410-490586/1-A	Method Blank	Total/NA	Water	7470A	490586
LCS 410-490586/2-A	Lab Control Sample	Total/NA	Water	7470A	490586

QC Association Summary

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Metals

Analysis Batch: 491890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Dissolved	Water	6010D	490658
410-166326-2	AP-1DGWC-48 1 Control Day 21	Dissolved	Water	6010D	490658
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Dissolved	Water	6010D	490658
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Dissolved	Water	6010D	490658
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Dissolved	Water	6010D	490658
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Dissolved	Water	6010D	490658
MB 410-490658/1-A	Method Blank	Total Recoverable	Water	6010D	490658
LCS 410-490658/2-A	Lab Control Sample	Total Recoverable	Water	6010D	490658

Analysis Batch: 496758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Dissolved	Water	6020B	490658
410-166326-2	AP-1DGWC-48 1 Control Day 21	Dissolved	Water	6020B	490658
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Dissolved	Water	6020B	490658
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Dissolved	Water	6020B	490658
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Dissolved	Water	6020B	490658
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Dissolved	Water	6020B	490658
MB 410-490658/1-A	Method Blank	Total Recoverable	Water	6020B	490658
LCS 410-490658/2-A	Lab Control Sample	Total Recoverable	Water	6020B	490658

Analysis Batch: 496997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Dissolved	Water	6020B	490658

General Chemistry

Analysis Batch: 490503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Total/NA	Water	2540C - 2015	
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Total/NA	Water	2540C - 2015	
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Total/NA	Water	2540C - 2015	
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Total/NA	Water	2540C - 2015	
MB 410-490503/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-490503/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 491181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-166326-1	AP-1DGWC-48 Influent Day 21	Total/NA	Water	9040C	
410-166326-3	AP-1DGWC-48 2I KHCO3 Day 21	Total/NA	Water	9040C	
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Total/NA	Water	9040C	
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Total/NA	Water	9040C	
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Total/NA	Water	9040C	
LCS 410-491181/17	Lab Control Sample	Total/NA	Water	9040C	
LCSD 410-491181/18	Lab Control Sample Dup	Total/NA	Water	9040C	

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 Influent Day 21
Lab Sample ID: 410-166326-1
Date Collected: 04/02/24 08:00
Matrix: Water
Date Received: 04/02/24 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	491326	W7FX	ELLE	04/05/24 23:02
Total/NA	Analysis	EPA 300.0 R2.1		50	491326	W7FX	ELLE	04/05/24 23:36
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6010D		1	491890	T8CQ	ELLE	04/08/24 08:39
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6020B		1	496758	F7JF	ELLE	04/21/24 16:52
Dissolved	Prep	7470A			490586	NU9R	ELLE	04/05/24 08:38
Dissolved	Analysis	7470A		1	491246	UEFS	ELLE	04/05/24 14:06
Total/NA	Analysis	2540C - 2015		1	490503	M98K	ELLE	04/04/24 06:53 - 04/05/24 10:15 [1]
Total/NA	Analysis	9040C		1	491181	DI9Q	ELLE	04/04/24 22:41

Client Sample ID: AP-1DGWC-48 1 Control Day 21
Lab Sample ID: 410-166326-2
Date Collected: 04/02/24 08:15
Matrix: Water
Date Received: 04/02/24 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6010D		1	491890	T8CQ	ELLE	04/08/24 08:52
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6020B		1	496758	F7JF	ELLE	04/21/24 17:00
Dissolved	Prep	7470A			490586	NU9R	ELLE	04/05/24 08:38
Dissolved	Analysis	7470A		1	491246	UEFS	ELLE	04/05/24 14:22

Client Sample ID: AP-1DGWC-48 2l KHCO3 Day 21
Lab Sample ID: 410-166326-3
Date Collected: 04/02/24 08:30
Matrix: Water
Date Received: 04/02/24 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	491326	W7FX	ELLE	04/05/24 23:48
Total/NA	Analysis	EPA 300.0 R2.1		50	491326	W7FX	ELLE	04/06/24 00:00
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6010D		1	491890	T8CQ	ELLE	04/08/24 08:49
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6020B		1	496758	F7JF	ELLE	04/21/24 16:58
Dissolved	Prep	7470A			490586	NU9R	ELLE	04/05/24 08:38
Dissolved	Analysis	7470A		1	491246	UEFS	ELLE	04/05/24 14:31
Total/NA	Analysis	9040C		1	491181	DI9Q	ELLE	04/04/24 22:36

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 21
Lab Sample ID: 410-166326-4
Date Collected: 04/02/24 08:45
Matrix: Water
Date Received: 04/02/24 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	491326	W7FX	ELLE	04/06/24 00:11

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 21
Lab Sample ID: 410-166326-4

Date Collected: 04/02/24 08:45
Matrix: Water
Date Received: 04/02/24 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		50	491326	W7FX	ELLE	04/06/24 00:23
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6010D		1	491890	T8CQ	ELLE	04/08/24 08:46
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6020B		1	496758	F7JF	ELLE	04/21/24 16:56
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6020B		10	496997	F7JF	ELLE	04/22/24 09:02
Dissolved	Prep	7470A			490586	NU9R	ELLE	04/05/24 08:38
Dissolved	Analysis	7470A		1	491246	UEFS	ELLE	04/05/24 14:20
Total/NA	Analysis	2540C - 2015		1	490503	M98K	ELLE	04/04/24 06:53 - 04/05/24 10:15 [1]
Total/NA	Analysis	9040C		1	491181	DI9Q	ELLE	04/04/24 22:27

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 21
Lab Sample ID: 410-166326-5

Date Collected: 04/02/24 09:00
Matrix: Water
Date Received: 04/02/24 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	491326	W7FX	ELLE	04/06/24 00:34
Total/NA	Analysis	EPA 300.0 R2.1		50	491326	W7FX	ELLE	04/06/24 00:46
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6010D		1	491890	T8CQ	ELLE	04/08/24 08:43
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6020B		1	496758	F7JF	ELLE	04/21/24 16:54
Dissolved	Prep	7470A			490586	NU9R	ELLE	04/05/24 08:38
Dissolved	Analysis	7470A		1	491246	UEFS	ELLE	04/05/24 14:29
Total/NA	Analysis	2540C - 2015		1	490503	M98K	ELLE	04/04/24 06:53 - 04/05/24 10:15 [1]
Total/NA	Analysis	9040C		1	491181	DI9Q	ELLE	04/04/24 22:32

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 21
Lab Sample ID: 410-166326-6

Date Collected: 04/02/24 09:15
Matrix: Water
Date Received: 04/02/24 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	491326	W7FX	ELLE	04/06/24 00:57
Total/NA	Analysis	EPA 300.0 R2.1		50	491326	W7FX	ELLE	04/06/24 01:09
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6010D		1	491890	T8CQ	ELLE	04/08/24 08:56
Dissolved	Prep	3005A			490658	NU9R	ELLE	04/05/24 09:00
Dissolved	Analysis	6020B		1	496758	F7JF	ELLE	04/21/24 17:04
Dissolved	Prep	7470A			490586	NU9R	ELLE	04/05/24 08:38
Dissolved	Analysis	7470A		1	491246	UEFS	ELLE	04/05/24 14:08
Total/NA	Analysis	2540C - 2015		1	490503	M98K	ELLE	04/04/24 06:53 - 04/05/24 10:15 [1]
Total/NA	Analysis	9040C		1	491181	DI9Q	ELLE	04/04/24 22:45

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Georgia (DW)	State	C048	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C - 2015		Water	Total Dissolved Solids
6010D	3005A	Water	Boron
6010D	3005A	Water	Lithium
6020B	3005A	Water	Antimony
6020B	3005A	Water	Arsenic
6020B	3005A	Water	Barium
6020B	3005A	Water	Beryllium
6020B	3005A	Water	Cadmium
6020B	3005A	Water	Calcium
6020B	3005A	Water	Chromium
6020B	3005A	Water	Cobalt
6020B	3005A	Water	Iron
6020B	3005A	Water	Lead
6020B	3005A	Water	Molybdenum
6020B	3005A	Water	Selenium
6020B	3005A	Water	Thallium
7470A	7470A	Water	Mercury
9040C		Water	pH
9040C		Water	Temperature
EPA 300.0 R2.1		Water	Chloride
EPA 300.0 R2.1		Water	Fluoride
EPA 300.0 R2.1		Water	Sulfate

Method Summary

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-166326-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-166326-1	AP-1DGWC-48 Influent Day 21	Water	04/02/24 08:00	04/02/24 16:48
410-166326-2	AP-1DGWC-48 1 Control Day 21	Water	04/02/24 08:15	04/02/24 16:48
410-166326-3	AP-1DGWC-48 2l KHCO3 Day 21	Water	04/02/24 08:30	04/02/24 16:48
410-166326-4	AP-1DGWC-48 2 KHCO3 Day 21	Water	04/02/24 08:45	04/02/24 16:48
410-166326-5	AP-1DGWC-48 2 FeSO4 Day 21	Water	04/02/24 09:00	04/02/24 16:48
410-166326-6	AP-1DGWC-48 4 ADA Carbon Day 21	Water	04/02/24 09:15	04/02/24 16:48

Env[illegible]sis Request/Chain of Custody

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410-166326 Chain of Custody

Sample # _____

Client: Terra Systems, Inc.			
Project Name/#: WSP Plant McDonough CCR TS III	Site ID #: Srymna, GA		
Project Manager: Michael D. Lee	P.O. #: 232720 4-2-24		
Sampler: Michael D. Lee	PWSID #:		
Phone #: 302-798-9553	Quote #: 41016315		
State where samples were collected: ___ GA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☑ Surface ☐ NPDES ☐	Other:	Total # of Containers	Dis As, Ba, Be, B, Ca, Cd,	Co, Cr, Fe, Hg, Li, Mo, Pb,	Sb, Se, Tl (field filtered)	Total Dissolved Solids & pH	SO4, Fl, Cl						Remarks
									Preservation Codes: N	N	N	-	-						
AP-1DGWC-48 Influent Day 21	4/2/2024	8:00		X		X		3	X	X	X	X	X						
AP-1 DGWC-48 1 Control Day 21	4/2/2024	8:15		X		X		1	X	X	X								
AP-1 DGWC-48 2l KHCO3 Day 21	4/2/2024	8:30		X		X		3	X	X	X	X	X						
AP-1 DGWC-48 2 KHCO3 Day 21	4/2/2024	8:45		X		X		3	X	X	X	X	X						
AP-1 DGWC-48 2 FeSO4 Day 21	4/2/2024	9:00		X		X		3	X	X	X	X	X						
AP-1 DGWC-48 4 ADA Carbon Day 21	4/2/2024	9:15		X		X		3	X	X	X	X	X						

Analyses Requested — Preservation Codes

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 4/16/24

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mlee@terrasystems.net

Phone: 302-798-9553

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: _____

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Michael Lee	4/2/24	12:45	(ELLE)	4/2/24	12:45
2	(ELLE)	4/2/24	16:48		Date	Time
3		Date	Time		Date	Time
4		Date	Time		Date	Time
5		Date	Time		Date	Time

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.2/1.3 °C

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7045 0216

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-166326-1

Login Number: 166326

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Cyms, Carolyn M

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	False	Insufficient volume received for requested analysis.
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 4/23/2024 8:08:58 AM

JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-167150-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

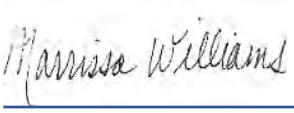
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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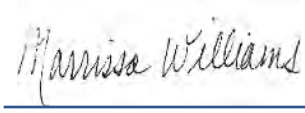

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 9
QC Sample Results 13
QC Association Summary 19
Lab Chronicle 22
Certification Summary 24
Method Summary 26
Sample Summary 27
Chain of Custody 28
Receipt Checklists 29

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-167150-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/9/2024 7:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AP-1DGWC-48 2 FeSO4 Day 28 (410-167150-5). The container labels list AP-1DGWC-48 2 FeSO4 Day 28, while the COC lists AP-1DGWC-48 3 FeSO4 Day 28.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D - Total Recoverable: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: AP-1DGWC-48 2 KHCO3 Day 28 (410-167150-4) and AP-1DGWC-48 4 ADA Carbon Day 28 (410-167150-6). The reporting limits (RLs) have been adjusted proportionately.

Method 6020B - Total Recoverable: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: AP-1DGWC-48 2 KHCO3 Day 28 (410-167150-4) and AP-1DGWC-48 4 ADA Carbon Day 28 (410-167150-6). The reporting limits (RLs) have been adjusted proportionately.

Method 7470A: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: AP-1DGWC-48 2 KHCO3 Day 28 (410-167150-4) and AP-1DGWC-48 4 ADA Carbon Day 28 (410-167150-6). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 Influent Day 28 — Lab Sample ID: 410-167150-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	251		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.29	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.582		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.100		0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0206		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.00707		0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.00255		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	57.4		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.294	^2	0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.102		0.0500	0.0200	mg/L	1		6020B	Dissolved
Lead	0.000841		0.000500	0.000120	mg/L	1		6020B	Dissolved
Total Dissolved Solids	343		30.0	12.0	mg/L	1		2540C - 2015	Total/NA
pH	4.00	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.6	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 1 Control Day 28 — Lab Sample ID: 410-167150-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	271		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.78	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.552		0.0500	0.0120	mg/L	1		6010D	Dissolved
Lithium	0.0128	J	0.0500	0.0110	mg/L	1		6010D	Dissolved
Barium	0.0173		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000259	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000797		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	53.7		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.145	^2	0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000231	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Total Dissolved Solids	388		30.0	12.0	mg/L	1		2540C - 2015	Total/NA
pH	6.10	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.7	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 28 — Lab Sample ID: 410-167150-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	270		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	7.17	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.438	J	0.500	0.120	mg/L	1		6010D	Total Recoverable
Barium	0.0931		0.0200	0.00746	mg/L	1		6020B	Total Recoverable
Calcium	104		1.20	0.500	mg/L	1		6020B	Total Recoverable
Chromium	0.0667		0.0200	0.00550	mg/L	1		6020B	Total Recoverable
Cobalt	0.0354		0.00500	0.00156	mg/L	1		6020B	Total Recoverable
Iron	1.39		0.500	0.200	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0117		0.00500	0.00130	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	810		120	48.0	mg/L	1		2540C - 2015	Total/NA
pH	7.53	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.6	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 28 — Lab Sample ID: 410-167150-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	308		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	7.03	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.503		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0202		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000212	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	39.0		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.0375	^2	0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0333	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.00183		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	590		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	7.26	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.7	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 28 — Lab Sample ID: 410-167150-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.477	J	1.00	0.450	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	260		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.17	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.347	J	0.500	0.120	mg/L	1		6010D	Total Recoverable
Barium	0.106		0.0200	0.00746	mg/L	1		6020B	Total Recoverable
Calcium	48.7		1.20	0.500	mg/L	1		6020B	Total Recoverable
Chromium	0.175		0.0200	0.00550	mg/L	1		6020B	Total Recoverable
Cobalt	0.0293		0.00500	0.00156	mg/L	1		6020B	Total Recoverable
Iron	1.97		0.500	0.200	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0174		0.00500	0.00130	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	614		120	48.0	mg/L	1		2540C - 2015	Total/NA
pH	7.20	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.7	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-1DGWC-48 Influent Day 28

Lab Sample ID: 410-167150-1
Date Collected: 04/09/24 08:00
Matrix: Water
Date Received: 04/09/24 19:05

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/18/24 15:43	5
Sulfate	**251**		75.0	25.0	mg/L			04/18/24 15:55	50
Chloride	**6.29**	**J**	7.50	3.00	mg/L			04/18/24 15:43	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.582**		0.0500	0.0120	mg/L		04/15/24 08:30	04/17/24 23:06	1
Lithium	**0.100**		0.0500	0.0110	mg/L		04/15/24 08:30	04/17/24 23:06	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/15/24 08:30	04/17/24 08:45	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/15/24 08:30	04/17/24 08:45	1
Barium	**0.0206**		0.00200	0.000746	mg/L		04/15/24 08:30	04/17/24 08:45	1
Beryllium	**0.00707**		0.000500	0.000119	mg/L		04/15/24 08:30	04/17/24 08:45	1
Cadmium	**0.00255**		0.000500	0.000151	mg/L		04/15/24 08:30	04/17/24 08:45	1
Calcium	**57.4**		0.120	0.0500	mg/L		04/15/24 08:30	04/17/24 08:45	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/15/24 08:30	04/17/24 08:45	1
Cobalt	**0.294**	**^2**	0.000500	0.000156	mg/L		04/15/24 08:30	04/17/24 08:45	1
Iron	**0.102**		0.0500	0.0200	mg/L		04/18/24 09:10	04/19/24 08:35	1
Lead	**0.000841**		0.000500	0.000120	mg/L		04/15/24 08:30	04/17/24 08:45	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:45	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/15/24 08:30	04/17/24 08:45	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:45	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/19/24 06:00	04/19/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**343**		30.0	12.0	mg/L			04/11/24 06:38	1
pH (SW846 9040C)	**4.00**	**HF**	0.0100	0.0100	S.U.			04/10/24 21:45	1
Temperature (SW846 9040C)	**23.6**	**HF**	0.0100	0.0100	Degrees C			04/10/24 21:45	1

Client Sample ID: AP-1DGWC-48 1 Control Day 28

Lab Sample ID: 410-167150-2
Date Collected: 04/09/24 08:15
Matrix: Water
Date Received: 04/09/24 19:05

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/18/24 16:07	5
Sulfate	**271**		75.0	25.0	mg/L			04/18/24 16:20	50
Chloride	**6.78**	**J**	7.50	3.00	mg/L			04/18/24 16:07	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.552**		0.0500	0.0120	mg/L		04/15/24 08:30	04/17/24 22:59	1
Lithium	**0.0128**	**J**	0.0500	0.0110	mg/L		04/15/24 08:30	04/17/24 22:59	1

Client Sample ID: AP-1DGWC-48 1 Control Day 28

Lab Sample ID: 410-167150-2

Date Collected: 04/09/24 08:15

Matrix: Water

Date Received: 04/09/24 19:05

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/15/24 08:30	04/17/24 08:41	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/15/24 08:30	04/17/24 08:41	1
Barium	**0.0173**		0.00200	0.000746	mg/L		04/15/24 08:30	04/17/24 08:41	1
Beryllium	**0.000259**	**J**	0.000500	0.000119	mg/L		04/15/24 08:30	04/17/24 08:41	1
Cadmium	**0.000797**		0.000500	0.000151	mg/L		04/15/24 08:30	04/17/24 08:41	1
Calcium	**53.7**		0.120	0.0500	mg/L		04/15/24 08:30	04/17/24 08:41	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/15/24 08:30	04/17/24 08:41	1
Cobalt	**0.145**	**^2**	0.000500	0.000156	mg/L		04/15/24 08:30	04/17/24 08:41	1
Iron	<0.0200		0.0500	0.0200	mg/L		04/18/24 09:10	04/19/24 08:33	1
Lead	**0.000231**	**J**	0.000500	0.000120	mg/L		04/15/24 08:30	04/17/24 08:41	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:41	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/15/24 08:30	04/17/24 08:41	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:41	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/19/24 06:00	04/19/24 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**388**		30.0	12.0	mg/L			04/11/24 06:38	1
pH (SW846 9040C)	**6.10**	**HF**	0.0100	0.0100	S.U.			04/10/24 21:42	1
Temperature (SW846 9040C)	**23.7**	**HF**	0.0100	0.0100	Degrees C			04/10/24 21:42	1

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 28

Lab Sample ID: 410-167150-4

Date Collected: 04/09/24 08:30

Matrix: Water

Date Received: 04/09/24 19:05

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/18/24 17:20	5
Sulfate	**270**		75.0	25.0	mg/L			04/18/24 17:32	50
Chloride	**7.17**	**J**	7.50	3.00	mg/L			04/18/24 17:20	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.438**	**J**	0.500	0.120	mg/L		04/19/24 19:20	04/22/24 12:48	1
Lithium	<0.110		0.500	0.110	mg/L		04/19/24 19:20	04/22/24 12:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.0100	0.00200	mg/L		04/19/24 19:20	04/22/24 21:17	1
Arsenic	<0.00680		0.0200	0.00680	mg/L		04/19/24 19:20	04/22/24 21:17	1
Barium	**0.0931**		0.0200	0.00746	mg/L		04/19/24 19:20	04/22/24 21:17	1
Beryllium	<0.00119		0.00500	0.00119	mg/L		04/19/24 19:20	04/22/24 21:17	1
Cadmium	<0.00151		0.00500	0.00151	mg/L		04/19/24 19:20	04/22/24 21:17	1
Calcium	**104**		1.20	0.500	mg/L		04/19/24 19:20	04/22/24 21:17	1
Chromium	**0.0667**		0.0200	0.00550	mg/L		04/19/24 19:20	04/22/24 21:17	1
Cobalt	**0.0354**		0.00500	0.00156	mg/L		04/19/24 19:20	04/22/24 21:17	1
Iron	**1.39**		0.500	0.200	mg/L		04/19/24 19:20	04/22/24 21:17	1

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 28
Lab Sample ID: 410-167150-4

Date Collected: 04/09/24 08:30
Matrix: Water
Date Received: 04/09/24 19:05

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00120		0.00500	0.00120	mg/L		04/19/24 19:20	04/22/24 21:17	1
Molybdenum	**0.0117**		0.00500	0.00130	mg/L		04/19/24 19:20	04/22/24 21:17	1
Selenium	<0.00278		0.0100	0.00278	mg/L		04/19/24 19:20	04/22/24 21:17	1
Thallium	<0.00130		0.00500	0.00130	mg/L		04/19/24 19:20	04/22/24 21:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000790		0.00200	0.000790	mg/L		04/19/24 06:00	04/19/24 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**810**		120	48.0	mg/L			04/11/24 06:38	1
pH (SW846 9040C)	**7.53**	**HF**	0.0100	0.0100	S.U.			04/10/24 21:30	1
Temperature (SW846 9040C)	**23.6**	**HF**	0.0100	0.0100	Degrees C			04/10/24 21:30	1

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 28
Lab Sample ID: 410-167150-5

Date Collected: 04/09/24 08:45
Matrix: Water
Date Received: 04/09/24 19:05

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/18/24 16:32	5
Sulfate	**308**		75.0	25.0	mg/L			04/18/24 17:08	50
Chloride	**7.03**	**J**	7.50	3.00	mg/L			04/18/24 16:32	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.503**		0.0500	0.0120	mg/L		04/15/24 08:30	04/17/24 23:02	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/15/24 08:30	04/17/24 23:02	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/15/24 08:30	04/17/24 08:43	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/15/24 08:30	04/17/24 08:43	1
Barium	**0.0202**		0.00200	0.000746	mg/L		04/15/24 08:30	04/17/24 08:43	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/15/24 08:30	04/17/24 08:43	1
Cadmium	**0.000212**	**J**	0.000500	0.000151	mg/L		04/15/24 08:30	04/17/24 08:43	1
Calcium	**39.0**		0.120	0.0500	mg/L		04/15/24 08:30	04/17/24 08:43	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/15/24 08:30	04/17/24 08:43	1
Cobalt	**0.0375**	**^2**	0.000500	0.000156	mg/L		04/15/24 08:30	04/17/24 08:43	1
Iron	**0.0333**	**J**	0.0500	0.0200	mg/L		04/18/24 09:10	04/19/24 08:09	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/15/24 08:30	04/17/24 08:43	1
Molybdenum	**0.00183**		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:43	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/15/24 08:30	04/17/24 08:43	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:43	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/19/24 06:00	04/19/24 15:12	1

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 28

Lab Sample ID: 410-167150-5

Date Collected: 04/09/24 08:45

Matrix: Water

Date Received: 04/09/24 19:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	590		60.0	24.0	mg/L			04/11/24 06:38	1
pH (SW846 9040C)	7.26	HF	0.0100	0.0100	S.U.			04/10/24 21:38	1
Temperature (SW846 9040C)	23.7	HF	0.0100	0.0100	Degrees C			04/10/24 21:38	1

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 28

Lab Sample ID: 410-167150-6

Date Collected: 04/09/24 09:00

Matrix: Water

Date Received: 04/09/24 19:05

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.477	J	1.00	0.450	mg/L			04/18/24 14:00	5
Sulfate	260		75.0	25.0	mg/L			04/18/24 14:12	50
Chloride	6.17	J	7.50	3.00	mg/L			04/18/24 14:00	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.347	J	0.500	0.120	mg/L		04/19/24 19:20	04/22/24 12:54	1
Lithium	<0.110		0.500	0.110	mg/L		04/19/24 19:20	04/22/24 12:54	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.0100	0.00200	mg/L		04/19/24 19:20	04/22/24 21:19	1
Arsenic	<0.00680		0.0200	0.00680	mg/L		04/19/24 19:20	04/22/24 21:19	1
Barium	0.106		0.0200	0.00746	mg/L		04/19/24 19:20	04/22/24 21:19	1
Beryllium	<0.00119		0.00500	0.00119	mg/L		04/19/24 19:20	04/22/24 21:19	1
Cadmium	<0.00151		0.00500	0.00151	mg/L		04/19/24 19:20	04/22/24 21:19	1
Calcium	48.7		1.20	0.500	mg/L		04/19/24 19:20	04/22/24 21:19	1
Chromium	0.175		0.0200	0.00550	mg/L		04/19/24 19:20	04/22/24 21:19	1
Cobalt	0.0293		0.00500	0.00156	mg/L		04/19/24 19:20	04/22/24 21:19	1
Iron	1.97		0.500	0.200	mg/L		04/19/24 19:20	04/22/24 21:19	1
Lead	<0.00120		0.00500	0.00120	mg/L		04/19/24 19:20	04/22/24 21:19	1
Molybdenum	0.0174		0.00500	0.00130	mg/L		04/19/24 19:20	04/22/24 21:19	1
Selenium	<0.00278		0.0100	0.00278	mg/L		04/19/24 19:20	04/22/24 21:19	1
Thallium	<0.00130		0.00500	0.00130	mg/L		04/19/24 19:20	04/22/24 21:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000790		0.00200	0.000790	mg/L		04/19/24 06:00	04/19/24 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	614		120	48.0	mg/L			04/11/24 06:34	1
pH (SW846 9040C)	7.20	HF	0.0100	0.0100	S.U.			04/10/24 21:34	1
Temperature (SW846 9040C)	23.7	HF	0.0100	0.0100	Degrees C			04/10/24 21:34	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-495406/60
Matrix: Water
Analysis Batch: 495406

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			04/18/24 10:28	1
Sulfate	<0.500		1.50	0.500	mg/L			04/18/24 10:28	1
Chloride	<0.600		1.50	0.600	mg/L			04/18/24 10:28	1

Lab Sample ID: LCS 410-495406/62
Matrix: Water
Analysis Batch: 495406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.8045		mg/L		107	90 - 110
Sulfate	7.50	7.570		mg/L		101	90 - 110
Chloride	3.00	3.059		mg/L		102	90 - 110

Lab Sample ID: LCSD 410-495406/61
Matrix: Water
Analysis Batch: 495406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7863		mg/L		105	90 - 110	2	20
Sulfate	7.50	7.609		mg/L		101	90 - 110	1	20
Chloride	3.00	3.058		mg/L		102	90 - 110	0	20

Lab Sample ID: MB 410-495903/5
Matrix: Water
Analysis Batch: 495903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			04/18/24 06:19	1
Sulfate	<0.500		1.50	0.500	mg/L			04/18/24 06:19	1
Chloride	<0.600		1.50	0.600	mg/L			04/18/24 06:19	1

Lab Sample ID: LCS 410-495903/3
Matrix: Water
Analysis Batch: 495903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.6865		mg/L		92	90 - 110
Sulfate	7.50	7.550		mg/L		101	90 - 110
Chloride	3.00	3.014		mg/L		100	90 - 110

Lab Sample ID: LCSD 410-495903/4
Matrix: Water
Analysis Batch: 495903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7569		mg/L		101	90 - 110	10	20
Sulfate	7.50	7.554		mg/L		101	90 - 110	0	20
Chloride	3.00	3.016		mg/L		101	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-493555/1-A
Matrix: Water
Analysis Batch: 497245

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 493555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		04/19/24 19:20	04/22/24 11:59	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/19/24 19:20	04/22/24 11:59	1

Lab Sample ID: LCS 410-493555/2-A
Matrix: Water
Analysis Batch: 497245

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 493555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4935		mg/L		99	83 - 119
Lithium	0.500	0.5044		mg/L		101	88 - 113

Lab Sample ID: MB 410-494059/1-A
Matrix: Water
Analysis Batch: 495581

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 494059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		04/15/24 08:30	04/17/24 22:13	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/15/24 08:30	04/17/24 22:13	1

Lab Sample ID: LCS 410-494059/2-A
Matrix: Water
Analysis Batch: 495581

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 494059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4951		mg/L		99	83 - 119
Lithium	0.500	0.4899		mg/L		98	88 - 113

Lab Sample ID: LCSD 410-494059/3-A
Matrix: Water
Analysis Batch: 495581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 494059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.500	0.4872		mg/L		97	83 - 119	2	20
Lithium	0.500	0.4839		mg/L		97	88 - 113	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-493555/1-A
Matrix: Water
Analysis Batch: 497248

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 493555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/19/24 19:20	04/22/24 20:05	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/19/24 19:20	04/22/24 20:05	1
Barium	<0.000746		0.00200	0.000746	mg/L		04/19/24 19:20	04/22/24 20:05	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/19/24 19:20	04/22/24 20:05	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		04/19/24 19:20	04/22/24 20:05	1
Calcium	<0.0500		0.120	0.0500	mg/L		04/19/24 19:20	04/22/24 20:05	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/19/24 19:20	04/22/24 20:05	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		04/19/24 19:20	04/22/24 20:05	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-493555/1-A
Matrix: Water
Analysis Batch: 497248

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 493555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.0200		0.0500	0.0200	mg/L		04/19/24 19:20	04/22/24 20:05	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/19/24 19:20	04/22/24 20:05	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/19/24 19:20	04/22/24 20:05	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/19/24 19:20	04/22/24 20:05	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/19/24 19:20	04/22/24 20:05	1

Lab Sample ID: LCS 410-493555/2-A
Matrix: Water
Analysis Batch: 497248

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 493555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.1004		mg/L		100	90 - 115
Arsenic	0.500	0.5221		mg/L		104	90 - 109
Barium	0.500	0.4947		mg/L		99	90 - 113
Beryllium	0.0500	0.04616		mg/L		92	82 - 120
Cadmium	0.0500	0.04996		mg/L		100	90 - 112
Calcium	5.00	4.992		mg/L		100	90 - 112
Chromium	0.500	0.4923		mg/L		98	90 - 110
Cobalt	0.500	0.4968		mg/L		99	90 - 110
Iron	5.00	4.854		mg/L		97	90 - 111
Lead	0.0500	0.04840		mg/L		97	90 - 110
Molybdenum	0.0500	0.05119		mg/L		102	90 - 115
Selenium	0.100	0.1025		mg/L		103	90 - 110
Thallium	0.100	0.09580		mg/L		96	90 - 110

Lab Sample ID: MB 410-494059/1-A
Matrix: Water
Analysis Batch: 495291

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 494059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/15/24 08:30	04/17/24 08:17	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/15/24 08:30	04/17/24 08:17	1
Barium	<0.000746		0.00200	0.000746	mg/L		04/15/24 08:30	04/17/24 08:17	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/15/24 08:30	04/17/24 08:17	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		04/15/24 08:30	04/17/24 08:17	1
Calcium	<0.0500		0.120	0.0500	mg/L		04/15/24 08:30	04/17/24 08:17	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/15/24 08:30	04/17/24 08:17	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		04/15/24 08:30	04/17/24 08:17	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/15/24 08:30	04/17/24 08:17	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:17	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/15/24 08:30	04/17/24 08:17	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/15/24 08:30	04/17/24 08:17	1

Lab Sample ID: LCS 410-494059/2-A
Matrix: Water
Analysis Batch: 495291

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 494059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09653		mg/L		97	90 - 115

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-494059/2-A
Matrix: Water
Analysis Batch: 495291

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 494059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.500	0.4944		mg/L		99	90 - 109
Barium	0.500	0.4820		mg/L		96	90 - 113
Beryllium	0.0500	0.04891		mg/L		98	82 - 120
Cadmium	0.0500	0.04875		mg/L		97	90 - 112
Calcium	5.00	4.970		mg/L		99	90 - 112
Chromium	0.500	0.4874		mg/L		97	90 - 110
Cobalt	0.500	0.4932		mg/L		99	90 - 110
Iron	5.00	5.103		mg/L		102	90 - 111
Lead	0.0500	0.04886		mg/L		98	90 - 110
Molybdenum	0.0500	0.04886		mg/L		98	90 - 115
Selenium	0.100	0.09941		mg/L		99	90 - 110
Thallium	0.100	0.09687		mg/L		97	90 - 110

Lab Sample ID: LCSD 410-494059/3-A
Matrix: Water
Analysis Batch: 495291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 494059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.100	0.09703		mg/L		97	90 - 115	1	20
Arsenic	0.500	0.4821		mg/L		96	90 - 109	3	20
Barium	0.500	0.4846		mg/L		97	90 - 113	1	20
Beryllium	0.0500	0.04862		mg/L		97	82 - 120	1	20
Cadmium	0.0500	0.04856		mg/L		97	90 - 112	0	20
Calcium	5.00	4.644		mg/L		93	90 - 112	7	20
Chromium	0.500	0.4698		mg/L		94	90 - 110	4	20
Cobalt	0.500	0.4715		mg/L		94	90 - 110	5	20
Iron	5.00	4.953		mg/L		99	90 - 111	3	20
Lead	0.0500	0.04774		mg/L		95	90 - 110	2	20
Molybdenum	0.0500	0.04903		mg/L		98	90 - 115	0	20
Selenium	0.100	0.09908		mg/L		99	90 - 110	0	20
Thallium	0.100	0.09432		mg/L		94	90 - 110	3	20

Lab Sample ID: MB 410-495633/1-A
Matrix: Water
Analysis Batch: 496210

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 495633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.0200		0.0500	0.0200	mg/L		04/18/24 09:10	04/19/24 08:05	1

Lab Sample ID: 410-167150-5 MS
Matrix: Water
Analysis Batch: 496210

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 28
Prep Type: Dissolved
Prep Batch: 495633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0333	J	5.00	4.847		mg/L		96	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-167150-5 MSD
Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 28
Matrix: Water
Prep Type: Dissolved
Analysis Batch: 496210
Prep Batch: 495633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.0333	J	5.00	4.675		mg/L		93	75 - 125	4	20

Lab Sample ID: 410-167150-5 DU
Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 28
Matrix: Water
Prep Type: Dissolved
Analysis Batch: 496210
Prep Batch: 495633

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.0333	J	0.03380	J	mg/L		1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-493635/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 496473
Prep Batch: 493635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/19/24 06:00	04/19/24 14:40	1

Lab Sample ID: LCS 410-493635/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 496473
Prep Batch: 493635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0008404		mg/L		84	80 - 118

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-493007/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 493007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			04/11/24 06:34	1

Lab Sample ID: LCS 410-493007/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 493007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	195.0		mg/L		98	90 - 110

Lab Sample ID: MB 410-493008/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 493008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			04/11/24 06:38	1

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 410-493008/2
Matrix: Water
Analysis Batch: 493008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	201.0		mg/L		101	90 - 110

Lab Sample ID: 410-167150-4 DU
Matrix: Water
Analysis Batch: 493008

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	810		820.0		mg/L		1	10

Method: 9040C - pH

Lab Sample ID: LCS 410-493239/3
Matrix: Water
Analysis Batch: 493239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.020		S.U.		100	95 - 105

HPLC/IC

Analysis Batch: 495406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-1	AP-1DGWC-48 Influent Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-2	AP-1DGWC-48 1 Control Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-2	AP-1DGWC-48 1 Control Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Total/NA	Water	EPA 300.0 R2.1	
MB 410-495406/60	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-495406/62	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-495406/61	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 495903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total/NA	Water	EPA 300.0 R2.1	
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total/NA	Water	EPA 300.0 R2.1	
MB 410-495903/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-495903/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-495903/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 493555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total Recoverable	Water	3005A	
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total Recoverable	Water	3005A	
MB 410-493555/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-493555/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 493635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Dissolved	Water	7470A	
410-167150-2	AP-1DGWC-48 1 Control Day 28	Dissolved	Water	7470A	
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total/NA	Water	7470A	
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	7470A	
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total/NA	Water	7470A	
MB 410-493635/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-493635/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 494059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Dissolved	Water	3005A	
410-167150-2	AP-1DGWC-48 1 Control Day 28	Dissolved	Water	3005A	
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	3005A	
MB 410-494059/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-494059/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 410-494059/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 495291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Dissolved	Water	6020B	494059

Metals (Continued)

Analysis Batch: 495291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-2	AP-1DGWC-48 1 Control Day 28	Dissolved	Water	6020B	494059
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	6020B	494059
MB 410-494059/1-A	Method Blank	Total Recoverable	Water	6020B	494059
LCS 410-494059/2-A	Lab Control Sample	Total Recoverable	Water	6020B	494059
LCSD 410-494059/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	494059

Analysis Batch: 495581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Dissolved	Water	6010D	494059
410-167150-2	AP-1DGWC-48 1 Control Day 28	Dissolved	Water	6010D	494059
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	6010D	494059
MB 410-494059/1-A	Method Blank	Total Recoverable	Water	6010D	494059
LCS 410-494059/2-A	Lab Control Sample	Total Recoverable	Water	6010D	494059
LCSD 410-494059/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010D	494059

Prep Batch: 495633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Dissolved	Water	3005A	
410-167150-2	AP-1DGWC-48 1 Control Day 28	Dissolved	Water	3005A	
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	3005A	
MB 410-495633/1-A	Method Blank	Total Recoverable	Water	3005A	
410-167150-5 MS	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	3005A	
410-167150-5 MSD	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	3005A	
410-167150-5 DU	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	3005A	

Analysis Batch: 496210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Dissolved	Water	6020B	495633
410-167150-2	AP-1DGWC-48 1 Control Day 28	Dissolved	Water	6020B	495633
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	6020B	495633
MB 410-495633/1-A	Method Blank	Total Recoverable	Water	6020B	495633
410-167150-5 MS	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	6020B	495633
410-167150-5 MSD	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	6020B	495633
410-167150-5 DU	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	6020B	495633

Analysis Batch: 496473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Dissolved	Water	7470A	493635
410-167150-2	AP-1DGWC-48 1 Control Day 28	Dissolved	Water	7470A	493635
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total/NA	Water	7470A	493635
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Dissolved	Water	7470A	493635
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total/NA	Water	7470A	493635
MB 410-493635/1-A	Method Blank	Total/NA	Water	7470A	493635
LCS 410-493635/2-A	Lab Control Sample	Total/NA	Water	7470A	493635

Analysis Batch: 497245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total Recoverable	Water	6010D	493555
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total Recoverable	Water	6010D	493555
MB 410-493555/1-A	Method Blank	Total Recoverable	Water	6010D	493555
LCS 410-493555/2-A	Lab Control Sample	Total Recoverable	Water	6010D	493555

QC Association Summary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Metals

Analysis Batch: 497248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total Recoverable	Water	6020B	493555
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total Recoverable	Water	6020B	493555
MB 410-493555/1-A	Method Blank	Total Recoverable	Water	6020B	493555
LCS 410-493555/2-A	Lab Control Sample	Total Recoverable	Water	6020B	493555

General Chemistry

Analysis Batch: 493007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total/NA	Water	2540C - 2015	
MB 410-493007/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-493007/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 493008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Total/NA	Water	2540C - 2015	
410-167150-2	AP-1DGWC-48 1 Control Day 28	Total/NA	Water	2540C - 2015	
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total/NA	Water	2540C - 2015	
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Total/NA	Water	2540C - 2015	
MB 410-493008/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-493008/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
410-167150-4 DU	AP-1DGWC-48 2 KHCO3 Day 28	Total/NA	Water	2540C - 2015	

Analysis Batch: 493239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167150-1	AP-1DGWC-48 Influent Day 28	Total/NA	Water	9040C	
410-167150-2	AP-1DGWC-48 1 Control Day 28	Total/NA	Water	9040C	
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Total/NA	Water	9040C	
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Total/NA	Water	9040C	
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Total/NA	Water	9040C	
LCS 410-493239/3	Lab Control Sample	Total/NA	Water	9040C	

Client Sample ID: AP-1DGWC-48 Influent Day 28

Lab Sample ID: 410-167150-1

Date Collected: 04/09/24 08:00

Matrix: Water

Date Received: 04/09/24 19:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	495406	W7FX	ELLE	04/18/24 15:43
Total/NA	Analysis	EPA 300.0 R2.1		50	495406	W7FX	ELLE	04/18/24 15:55
Dissolved	Prep	3005A			494059	UAMX	ELLE	04/15/24 08:30
Dissolved	Analysis	6010D		1	495581	MT26	ELLE	04/17/24 23:06
Dissolved	Prep	3005A			494059	UAMX	ELLE	04/15/24 08:30
Dissolved	Analysis	6020B		1	495291	F7JF	ELLE	04/17/24 08:45
Dissolved	Prep	3005A			495633	UAMX	ELLE	04/18/24 09:10
Dissolved	Analysis	6020B		1	496210	F7JF	ELLE	04/19/24 08:35
Dissolved	Prep	7470A			493635	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496473	UEFS	ELLE	04/19/24 15:00
Total/NA	Analysis	2540C - 2015		1	493008	M98K	ELLE	04/11/24 06:38 - 04/12/24 10:20 [1]
Total/NA	Analysis	9040C		1	493239	DI9Q	ELLE	04/10/24 21:45

Client Sample ID: AP-1DGWC-48 1 Control Day 28

Lab Sample ID: 410-167150-2

Date Collected: 04/09/24 08:15

Matrix: Water

Date Received: 04/09/24 19:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	495406	W7FX	ELLE	04/18/24 16:07
Total/NA	Analysis	EPA 300.0 R2.1		50	495406	W7FX	ELLE	04/18/24 16:20
Dissolved	Prep	3005A			494059	UAMX	ELLE	04/15/24 08:30
Dissolved	Analysis	6010D		1	495581	MT26	ELLE	04/17/24 22:59
Dissolved	Prep	3005A			494059	UAMX	ELLE	04/15/24 08:30
Dissolved	Analysis	6020B		1	495291	F7JF	ELLE	04/17/24 08:41
Dissolved	Prep	3005A			495633	UAMX	ELLE	04/18/24 09:10
Dissolved	Analysis	6020B		1	496210	F7JF	ELLE	04/19/24 08:33
Dissolved	Prep	7470A			493635	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496473	UEFS	ELLE	04/19/24 14:58
Total/NA	Analysis	2540C - 2015		1	493008	M98K	ELLE	04/11/24 06:38 - 04/12/24 10:20 [1]
Total/NA	Analysis	9040C		1	493239	DI9Q	ELLE	04/10/24 21:42

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 28

Lab Sample ID: 410-167150-4

Date Collected: 04/09/24 08:30

Matrix: Water

Date Received: 04/09/24 19:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	495406	W7FX	ELLE	04/18/24 17:20
Total/NA	Analysis	EPA 300.0 R2.1		50	495406	W7FX	ELLE	04/18/24 17:32
Total Recoverable	Prep	3005A			493555	UAMX	ELLE	04/19/24 19:20
Total Recoverable	Analysis	6010D		1	497245	T8CQ	ELLE	04/22/24 12:48
Total Recoverable	Prep	3005A			493555	UAMX	ELLE	04/19/24 19:20
Total Recoverable	Analysis	6020B		1	497248	UCIG	ELLE	04/22/24 21:17
Total/NA	Prep	7470A			493635	UAMX	ELLE	04/19/24 06:00
Total/NA	Analysis	7470A		1	496473	UEFS	ELLE	04/19/24 15:23

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 28
Lab Sample ID: 410-167150-4

Date Collected: 04/09/24 08:30
Matrix: Water
Date Received: 04/09/24 19:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	493008	M98K	ELLE	04/11/24 06:38 - 04/12/24 10:20 [1]
Total/NA	Analysis	9040C		1	493239	DI9Q	ELLE	04/10/24 21:30

Client Sample ID: AP-1DGWC-48 2 FeSO4 Day 28
Lab Sample ID: 410-167150-5

Date Collected: 04/09/24 08:45
Matrix: Water
Date Received: 04/09/24 19:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	495406	W7FX	ELLE	04/18/24 16:32
Total/NA	Analysis	EPA 300.0 R2.1		50	495406	W7FX	ELLE	04/18/24 17:08
Dissolved	Prep	3005A			494059	UAMX	ELLE	04/15/24 08:30
Dissolved	Analysis	6010D		1	495581	MT26	ELLE	04/17/24 23:02
Dissolved	Prep	3005A			494059	UAMX	ELLE	04/15/24 08:30
Dissolved	Analysis	6020B		1	495291	F7JF	ELLE	04/17/24 08:43
Dissolved	Prep	3005A			495633	UAMX	ELLE	04/18/24 09:10
Dissolved	Analysis	6020B		1	496210	F7JF	ELLE	04/19/24 08:09
Dissolved	Prep	7470A			493635	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496473	UEFS	ELLE	04/19/24 15:12
Total/NA	Analysis	2540C - 2015		1	493008	M98K	ELLE	04/11/24 06:38 - 04/12/24 10:20 [1]
Total/NA	Analysis	9040C		1	493239	DI9Q	ELLE	04/10/24 21:38

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 28
Lab Sample ID: 410-167150-6

Date Collected: 04/09/24 09:00
Matrix: Water
Date Received: 04/09/24 19:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	495903	L4QM	ELLE	04/18/24 14:00
Total/NA	Analysis	EPA 300.0 R2.1		50	495903	L4QM	ELLE	04/18/24 14:12
Total Recoverable	Prep	3005A			493555	UAMX	ELLE	04/19/24 19:20
Total Recoverable	Analysis	6010D		1	497245	T8CQ	ELLE	04/22/24 12:54
Total Recoverable	Prep	3005A			493555	UAMX	ELLE	04/19/24 19:20
Total Recoverable	Analysis	6020B		1	497248	UCIG	ELLE	04/22/24 21:19
Total/NA	Prep	7470A			493635	UAMX	ELLE	04/19/24 06:00
Total/NA	Analysis	7470A		1	496473	UEFS	ELLE	04/19/24 15:25
Total/NA	Analysis	2540C - 2015		1	493007	M98K	ELLE	04/11/24 06:34 - 04/12/24 10:20 [1]
Total/NA	Analysis	9040C		1	493239	DI9Q	ELLE	04/10/24 21:34

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-167150-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-167150-1	AP-1DGWC-48 Influent Day 28	Water	04/09/24 08:00	04/09/24 19:05
410-167150-2	AP-1DGWC-48 1 Control Day 28	Water	04/09/24 08:15	04/09/24 19:05
410-167150-4	AP-1DGWC-48 2 KHCO3 Day 28	Water	04/09/24 08:30	04/09/24 19:05
410-167150-5	AP-1DGWC-48 2 FeSO4 Day 28	Water	04/09/24 08:45	04/09/24 19:05
410-167150-6	AP-1DGWC-48 4 ADA Carbon Day 28	Water	04/09/24 09:00	04/09/24 19:05

Environmental Chain of Custody

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410-167150 Chain of Custody

Acct. # _____ Gr

Client: Terra Systems, Inc.			
Project Name/#: WSP Plant McDonough CCR TS II	Site ID #: Srymna, GA		
Project Manager: Michael D. Lee	P.O. #: 232720 4-9-24		
Sampler: Michael D. Lee	PWSID #:		
Phone #: 302-798-9553	Quote #: 41016315		
State where samples were collected: ___ GA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil / Sediment / Tissue	Water: Potable / Ground / Surface / NPDES	Other:	Total # of Containers	Dis As, Ba, Be, B, Ca, Cd,	Co, Cr, Fe, Hg, Li, Mo, Pb,	Sb, Se, Tl (field filtered)	Total Dissolved Solids & pH	SO4, Fl, Cl	Remarks
Preservation Codes									N	N	N	-	-	
AP-1DGWC-48 Influent Day 28	4/9/2024	8:00		X		X		3	X	X	X	X	X	
AP-1 DGWC-48 1 Control Day 28	4/9/2024	8:15		X		X		3	X	X	X	X	X	
AP-1 DGWC-48 2 KHCO3 Day 28	4/9/2024	8:30		X		X		3	X	X	X	X	X	metals not field filtered
AP-1 DGWC-48 2 FeSO4 Day 28	4/9/2024	8:45		X		X		3	X	X	X	X	X	
AP-1 DGWC-48 4 ADA Carbon Day 28	4/9/2024	9:00		X		X		3	X	X	X	X	X	metals not field filtered

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 4/123/2024

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mlee@terrasystems.net

Phone: 302-798-9553

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: _____

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Michael D Lee	4/9/24	11:45	RPM	9/APR24	1145
2	RPM	9APR24	1905			
3						
4						
5						
6				Stu Mc	4/9/24	1905

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.5.5 C.5.6 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-167150-1

Login Number: 167150

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Cyms, Carolyn M

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 4/29/2024 11:28:58 AM

JOB DESCRIPTION

WSP Plant McDonough CCR TS III

JOB NUMBER

410-167993-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

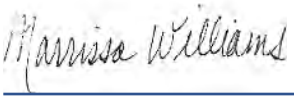
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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4/29/2024 11:28:58 AM

Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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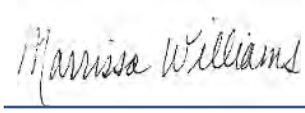

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 9
QC Sample Results 13
QC Association Summary 16
Lab Chronicle 18
Certification Summary 20
Method Summary 22
Sample Summary 23
Chain of Custody 24
Receipt Checklists 25

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-167993-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/16/2024 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 7470A - Dissolved: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: AP-1 DGWC-48 2 KHCO3 Day 35 (410-167993-3), AP-1 DGWC-48 2 FeSO4 Day 35 (410-167993-4) and AP-1 DGWC-48 4 ADA Carbon Day 35 (410-167993-5). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Project/Site: WSP Plant McDonough CCR TS III

Job ID: 410-167993-1

Client Sample ID: AP-1DGWC-48 Influent Day 35 — Lab Sample ID: 410-167993-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	307		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	10.7		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.491		0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.000857	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0210		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000537		0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	59.3	^2	0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.154		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.321		0.0500	0.0200	mg/L	1		6020B	Dissolved
Lead	0.000264	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.000271	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	498		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.93	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1 DGWC-48 1 Control Day 35 — Lab Sample ID: 410-167993-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	265		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	7.34	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.551		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0205		0.00200	0.000746	mg/L	1		6020B	Dissolved
Beryllium	0.000196	J	0.000500	0.000119	mg/L	1		6020B	Dissolved
Cadmium	0.000410	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	53.7	^2	0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.137		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.539		0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.000135	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	460		30.0	12.0	mg/L	1		2540C - 2015	Total/NA
pH	6.20	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.7	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1 DGWC-48 2 KHCO3 Day 35 — Lab Sample ID: 410-167993-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	289		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	9.24		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.467		0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.00156	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0680		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000309	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	82.3	^2	0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00214		0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.0308		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.241		0.0500	0.0200	mg/L	1		6020B	Dissolved
Lead	0.000165	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.00700		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	562		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.78	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1 DGWC-48 2 FeSO4 Day 35 — Lab Sample ID: 410-167993-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	261		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	6.79	J	7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.494		0.250	0.0600	mg/L	1		6010D	Dissolved
Barium	0.0388		0.0100	0.00373	mg/L	1		6020B	Dissolved
Calcium	40.3		0.600	0.250	mg/L	1		6020B	Dissolved
Cobalt	0.0316		0.00250	0.000780	mg/L	1		6020B	Dissolved
Molybdenum	0.00622		0.00250	0.000650	mg/L	1		6020B	Dissolved
Total Dissolved Solids	583		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.84	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1 DGWC-48 4 ADA Carbon Day 35 — Lab Sample ID: 410-167993-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	298		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	7.51		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.505		0.500	0.120	mg/L	1		6010D	Dissolved
Arsenic	0.00926	J	0.0200	0.00680	mg/L	1		6020B	Dissolved
Barium	0.230		0.0200	0.00746	mg/L	1		6020B	Dissolved
Calcium	40.8		1.20	0.500	mg/L	1		6020B	Dissolved
Cobalt	0.0206		0.00500	0.00156	mg/L	1		6020B	Dissolved
Molybdenum	0.00896		0.00500	0.00130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	341		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	7.19	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.8	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-1DGWC-48 Influent Day 35

Lab Sample ID: 410-167993-1

Date Collected: 04/16/24 08:00

Matrix: Water

Date Received: 04/16/24 14:40

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/23/24 18:13	5
Sulfate	**307**		75.0	25.0	mg/L			04/23/24 18:25	50
Chloride	**10.7**		7.50	3.00	mg/L			04/23/24 18:13	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.491**		0.0500	0.0120	mg/L		04/26/24 06:15	04/26/24 16:29	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/26/24 06:15	04/26/24 16:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/26/24 06:15	04/28/24 11:00	1
Arsenic	**0.000857**	**J**	0.00200	0.000680	mg/L		04/26/24 06:15	04/28/24 11:00	1
Barium	**0.0210**		0.00200	0.000746	mg/L		04/26/24 06:15	04/28/24 11:00	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/26/24 06:15	04/28/24 11:00	1
Cadmium	**0.000537**		0.000500	0.000151	mg/L		04/26/24 06:15	04/28/24 11:00	1
Calcium	**59.3**	**^2**	0.120	0.0500	mg/L		04/26/24 06:15	04/28/24 11:00	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/26/24 06:15	04/28/24 11:00	1
Cobalt	**0.154**		0.000500	0.000156	mg/L		04/26/24 06:15	04/28/24 11:00	1
Iron	**0.321**		0.0500	0.0200	mg/L		04/26/24 06:15	04/28/24 11:00	1
Lead	**0.000264**	**J**	0.000500	0.000120	mg/L		04/26/24 06:15	04/28/24 11:00	1
Molybdenum	**0.000271**	**J**	0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 11:00	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/26/24 06:15	04/28/24 11:00	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 11:00	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/19/24 06:00	04/19/24 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**498**		60.0	24.0	mg/L			04/18/24 07:37	1
pH (SW846 9040C)	**6.93**	**HF**	0.0100	0.0100	S.U.			04/17/24 20:03	1
Temperature (SW846 9040C)	**22.8**	**HF**	0.0100	0.0100	Degrees C			04/17/24 20:03	1

Client Sample ID: AP-1 DGWC-48 1 Control Day 35

Lab Sample ID: 410-167993-2

Date Collected: 04/16/24 08:15

Matrix: Water

Date Received: 04/16/24 14:40

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/23/24 18:37	5
Sulfate	**265**		75.0	25.0	mg/L			04/23/24 18:49	50
Chloride	**7.34**	**J**	7.50	3.00	mg/L			04/23/24 18:37	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.551**		0.0500	0.0120	mg/L		04/26/24 06:15	04/26/24 16:26	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/26/24 06:15	04/26/24 16:26	1

Client Sample ID: AP-1 DGWC-48 1 Control Day 35

Lab Sample ID: 410-167993-2

Date Collected: 04/16/24 08:15

Matrix: Water

Date Received: 04/16/24 14:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/26/24 06:15	04/28/24 10:58	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/26/24 06:15	04/28/24 10:58	1
Barium	**0.0205**		0.00200	0.000746	mg/L		04/26/24 06:15	04/28/24 10:58	1
Beryllium	**0.000196**	**J**	0.000500	0.000119	mg/L		04/26/24 06:15	04/28/24 10:58	1
Cadmium	**0.000410**	**J**	0.000500	0.000151	mg/L		04/26/24 06:15	04/28/24 10:58	1
Calcium	**53.7**	**^2**	0.120	0.0500	mg/L		04/26/24 06:15	04/28/24 10:58	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/26/24 06:15	04/28/24 10:58	1
Cobalt	**0.137**		0.000500	0.000156	mg/L		04/26/24 06:15	04/28/24 10:58	1
Iron	**0.539**		0.0500	0.0200	mg/L		04/26/24 06:15	04/28/24 10:58	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/26/24 06:15	04/28/24 10:58	1
Molybdenum	**0.000135**	**J**	0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 10:58	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/26/24 06:15	04/28/24 10:58	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 10:58	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/19/24 06:00	04/19/24 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**460**		30.0	12.0	mg/L			04/18/24 07:32	1
pH (SW846 9040C)	**6.20**	**HF**	0.0100	0.0100	S.U.			04/17/24 20:07	1
Temperature (SW846 9040C)	**22.7**	**HF**	0.0100	0.0100	Degrees C			04/17/24 20:07	1

Client Sample ID: AP-1 DGWC-48 2 KHCO3 Day 35

Lab Sample ID: 410-167993-3

Date Collected: 04/16/24 08:30

Matrix: Water

Date Received: 04/16/24 14:40

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/23/24 19:01	5
Sulfate	**289**		75.0	25.0	mg/L			04/23/24 19:13	50
Chloride	**9.24**		7.50	3.00	mg/L			04/23/24 19:01	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.467**		0.0500	0.0120	mg/L		04/26/24 06:15	04/26/24 16:23	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/26/24 06:15	04/26/24 16:23	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/26/24 06:15	04/28/24 10:56	1
Arsenic	**0.00156**	**J**	0.00200	0.000680	mg/L		04/26/24 06:15	04/28/24 10:56	1
Barium	**0.0680**		0.00200	0.000746	mg/L		04/26/24 06:15	04/28/24 10:56	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/26/24 06:15	04/28/24 10:56	1
Cadmium	**0.000309**	**J**	0.000500	0.000151	mg/L		04/26/24 06:15	04/28/24 10:56	1
Calcium	**82.3**	**^2**	0.120	0.0500	mg/L		04/26/24 06:15	04/28/24 10:56	1
Chromium	**0.00214**		0.00200	0.000550	mg/L		04/26/24 06:15	04/28/24 10:56	1
Cobalt	**0.0308**		0.000500	0.000156	mg/L		04/26/24 06:15	04/28/24 10:56	1
Iron	**0.241**		0.0500	0.0200	mg/L		04/26/24 06:15	04/28/24 10:56	1

Client Sample ID: AP-1 DGWC-48 2 KHCO3 Day 35

Lab Sample ID: 410-167993-3

Date Collected: 04/16/24 08:30
Matrix: Water
Date Received: 04/16/24 14:40

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.000165**	**J**	0.000500	0.000120	mg/L		04/26/24 06:15	04/28/24 10:56	1
Molybdenum	**0.00700**		0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 10:56	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/26/24 06:15	04/28/24 10:56	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 10:56	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000395		0.00100	0.000395	mg/L		04/19/24 06:00	04/19/24 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**562**		60.0	24.0	mg/L			04/18/24 07:37	1
pH (SW846 9040C)	**6.78**	**HF**	0.0100	0.0100	S.U.			04/17/24 19:52	1
Temperature (SW846 9040C)	**22.8**	**HF**	0.0100	0.0100	Degrees C			04/17/24 19:52	1

Client Sample ID: AP-1 DGWC-48 2 FeSO4 Day 35

Lab Sample ID: 410-167993-4

Date Collected: 04/16/24 08:45
Matrix: Water
Date Received: 04/16/24 14:40

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/23/24 19:26	5
Sulfate	**261**		75.0	25.0	mg/L			04/23/24 19:38	50
Chloride	**6.79**	**J**	7.50	3.00	mg/L			04/23/24 19:26	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.494**		0.250	0.0600	mg/L		04/26/24 06:15	04/26/24 16:32	1
Lithium	<0.0550		0.250	0.0550	mg/L		04/26/24 06:15	04/26/24 16:32	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00500	0.00100	mg/L		04/26/24 06:15	04/28/24 11:14	1
Arsenic	<0.00340		0.0100	0.00340	mg/L		04/26/24 06:15	04/28/24 11:14	1
Barium	**0.0388**		0.0100	0.00373	mg/L		04/26/24 06:15	04/28/24 11:14	1
Beryllium	<0.000595		0.00250	0.000595	mg/L		04/26/24 06:15	04/28/24 11:14	1
Cadmium	<0.000755		0.00250	0.000755	mg/L		04/26/24 06:15	04/28/24 11:14	1
Calcium	**40.3**		0.600	0.250	mg/L		04/26/24 06:15	04/28/24 11:14	1
Chromium	<0.00275		0.0100	0.00275	mg/L		04/26/24 06:15	04/28/24 11:14	1
Cobalt	**0.0316**		0.00250	0.000780	mg/L		04/26/24 06:15	04/28/24 11:14	1
Iron	<0.100		0.250	0.100	mg/L		04/26/24 06:15	04/28/24 11:14	1
Lead	<0.000600		0.00250	0.000600	mg/L		04/26/24 06:15	04/28/24 11:14	1
Molybdenum	**0.00622**		0.00250	0.000650	mg/L		04/26/24 06:15	04/28/24 11:14	1
Selenium	<0.00139		0.00500	0.00139	mg/L		04/26/24 06:15	04/28/24 11:14	1
Thallium	<0.000650		0.00250	0.000650	mg/L		04/26/24 06:15	04/28/24 11:14	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000395		0.00100	0.000395	mg/L		04/19/24 06:00	04/19/24 10:00	1

Client Sample ID: AP-1 DGWC-48 2 FeSO4 Day 35
Lab Sample ID: 410-167993-4

Date Collected: 04/16/24 08:45
Matrix: Water
Date Received: 04/16/24 14:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	583		60.0	24.0	mg/L			04/18/24 07:37	1
pH (SW846 9040C)	6.84	HF	0.0100	0.0100	S.U.			04/17/24 19:55	1
Temperature (SW846 9040C)	22.8	HF	0.0100	0.0100	Degrees C			04/17/24 19:55	1

Client Sample ID: AP-1 DGWC-48 4 ADA Carbon Day 35
Lab Sample ID: 410-167993-5

Date Collected: 04/16/24 09:00
Matrix: Water
Date Received: 04/16/24 14:40

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			04/23/24 20:14	5
Sulfate	298		75.0	25.0	mg/L			04/23/24 20:26	50
Chloride	7.51		7.50	3.00	mg/L			04/23/24 20:14	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.505		0.500	0.120	mg/L		04/26/24 06:15	04/26/24 16:35	1
Lithium	<0.110		0.500	0.110	mg/L		04/26/24 06:15	04/26/24 16:35	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.0100	0.00200	mg/L		04/26/24 06:15	04/28/24 11:15	1
Arsenic	0.00926	J	0.0200	0.00680	mg/L		04/26/24 06:15	04/28/24 11:15	1
Barium	0.230		0.0200	0.00746	mg/L		04/26/24 06:15	04/28/24 11:15	1
Beryllium	<0.00119		0.00500	0.00119	mg/L		04/26/24 06:15	04/28/24 11:15	1
Cadmium	<0.00151		0.00500	0.00151	mg/L		04/26/24 06:15	04/28/24 11:15	1
Calcium	40.8		1.20	0.500	mg/L		04/26/24 06:15	04/28/24 11:15	1
Chromium	<0.00550		0.0200	0.00550	mg/L		04/26/24 06:15	04/28/24 11:15	1
Cobalt	0.0206		0.00500	0.00156	mg/L		04/26/24 06:15	04/28/24 11:15	1
Iron	<0.200		0.500	0.200	mg/L		04/26/24 06:15	04/28/24 11:15	1
Lead	<0.00120		0.00500	0.00120	mg/L		04/26/24 06:15	04/28/24 11:15	1
Molybdenum	0.00896		0.00500	0.00130	mg/L		04/26/24 06:15	04/28/24 11:15	1
Selenium	<0.00278		0.0100	0.00278	mg/L		04/26/24 06:15	04/28/24 11:15	1
Thallium	<0.00130		0.00500	0.00130	mg/L		04/26/24 06:15	04/28/24 11:15	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000790		0.00200	0.000790	mg/L		04/19/24 06:00	04/19/24 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	341		60.0	24.0	mg/L			04/18/24 07:37	1
pH (SW846 9040C)	7.19	HF	0.0100	0.0100	S.U.			04/17/24 19:59	1
Temperature (SW846 9040C)	22.8	HF	0.0100	0.0100	Degrees C			04/17/24 19:59	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-497711/5
Matrix: Water
Analysis Batch: 497711

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			04/23/24 15:47	1
Sulfate	<0.500		1.50	0.500	mg/L			04/23/24 15:47	1
Chloride	<0.600		1.50	0.600	mg/L			04/23/24 15:47	1

Lab Sample ID: LCS 410-497711/3
Matrix: Water
Analysis Batch: 497711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7249		mg/L		97	90 - 110
Sulfate	7.50	7.698		mg/L		103	90 - 110
Chloride	3.00	2.939		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-497711/4
Matrix: Water
Analysis Batch: 497711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7194		mg/L		96	90 - 110	1	20
Sulfate	7.50	7.684		mg/L		102	90 - 110	0	20
Chloride	3.00	2.949		mg/L		98	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-497006/1-A
Matrix: Water
Analysis Batch: 499285

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 497006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		04/26/24 06:15	04/26/24 16:17	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/26/24 06:15	04/26/24 16:17	1

Lab Sample ID: LCS 410-497006/2-A
Matrix: Water
Analysis Batch: 499285

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 497006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4903		mg/L		98	83 - 119
Lithium	0.500	0.4922		mg/L		98	88 - 113

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-497006/1-A
Matrix: Water
Analysis Batch: 499531

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 497006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/26/24 06:15	04/28/24 10:06	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/26/24 06:15	04/28/24 10:06	1
Barium	<0.000746		0.00200	0.000746	mg/L		04/26/24 06:15	04/28/24 10:06	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-497006/1-A
Matrix: Water
Analysis Batch: 499531

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 497006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.000119	^+	0.000500	0.000119	mg/L		04/26/24 06:15	04/28/24 10:06	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		04/26/24 06:15	04/28/24 10:06	1
Calcium	<0.0500		0.120	0.0500	mg/L		04/26/24 06:15	04/28/24 10:06	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/26/24 06:15	04/28/24 10:06	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		04/26/24 06:15	04/28/24 10:06	1
Iron	<0.0200		0.0500	0.0200	mg/L		04/26/24 06:15	04/28/24 10:06	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/26/24 06:15	04/28/24 10:06	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 10:06	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/26/24 06:15	04/28/24 10:06	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/26/24 06:15	04/28/24 10:06	1

Lab Sample ID: LCS 410-497006/2-A
Matrix: Water
Analysis Batch: 499531

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 497006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09775		mg/L		98	90 - 115
Arsenic	0.500	0.4829		mg/L		97	90 - 109
Barium	0.500	0.4838		mg/L		97	90 - 113
Beryllium	0.0500	0.05252	^+	mg/L		105	82 - 120
Cadmium	0.0500	0.04858		mg/L		97	90 - 112
Calcium	5.00	4.763		mg/L		95	90 - 112
Chromium	0.500	0.4710		mg/L		94	90 - 110
Cobalt	0.500	0.4735		mg/L		95	90 - 110
Iron	5.00	4.785		mg/L		96	90 - 111
Lead	0.0500	0.04936		mg/L		99	90 - 110
Molybdenum	0.0500	0.04947		mg/L		99	90 - 115
Selenium	0.100	0.09796		mg/L		98	90 - 110
Thallium	0.100	0.09798		mg/L		98	90 - 110

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-496073/1-A
Matrix: Water
Analysis Batch: 496327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/19/24 06:00	04/19/24 08:53	1

Lab Sample ID: LCS 410-496073/2-A
Matrix: Water
Analysis Batch: 496327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0009099		mg/L		91	80 - 118

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-495610/1
Matrix: Water
Analysis Batch: 495610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			04/18/24 07:32	1

Lab Sample ID: LCS 410-495610/2
Matrix: Water
Analysis Batch: 495610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	190.0		mg/L		95	90 - 110

Lab Sample ID: MB 410-495612/1
Matrix: Water
Analysis Batch: 495612

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			04/18/24 07:37	1

Lab Sample ID: LCS 410-495612/2
Matrix: Water
Analysis Batch: 495612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	189.0		mg/L		95	90 - 110

Lab Sample ID: 410-167993-1 DU
Matrix: Water
Analysis Batch: 495612

Client Sample ID: AP-1DGWC-48 Influent Day 35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	498		505.0		mg/L		1	10

Method: 9040C - pH

Lab Sample ID: LCS 410-495897/3
Matrix: Water
Analysis Batch: 495897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.010		S.U.		100	95 - 105

Lab Sample ID: LCSD 410-495897/4
Matrix: Water
Analysis Batch: 495897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	7.00	6.990		S.U.		100	95 - 105	0	3

HPLC/IC

Analysis Batch: 497711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-1	AP-1DGWC-48 Influent Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Total/NA	Water	EPA 300.0 R2.1	
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Total/NA	Water	EPA 300.0 R2.1	
MB 410-497711/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-497711/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-497711/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 496073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Dissolved	Water	7470A	
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Dissolved	Water	7470A	
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Dissolved	Water	7470A	
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Dissolved	Water	7470A	
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Dissolved	Water	7470A	
MB 410-496073/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-496073/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 496327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Dissolved	Water	7470A	496073
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Dissolved	Water	7470A	496073
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Dissolved	Water	7470A	496073
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Dissolved	Water	7470A	496073
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Dissolved	Water	7470A	496073
MB 410-496073/1-A	Method Blank	Total/NA	Water	7470A	496073
LCS 410-496073/2-A	Lab Control Sample	Total/NA	Water	7470A	496073

Prep Batch: 497006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Dissolved	Water	3005A	
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Dissolved	Water	3005A	
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Dissolved	Water	3005A	
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Dissolved	Water	3005A	
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Dissolved	Water	3005A	
MB 410-497006/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-497006/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 499285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Dissolved	Water	6010D	497006
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Dissolved	Water	6010D	497006
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Dissolved	Water	6010D	497006

Metals (Continued)

Analysis Batch: 499285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Dissolved	Water	6010D	497006
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Dissolved	Water	6010D	497006
MB 410-497006/1-A	Method Blank	Total Recoverable	Water	6010D	497006
LCS 410-497006/2-A	Lab Control Sample	Total Recoverable	Water	6010D	497006

Analysis Batch: 499531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Dissolved	Water	6020B	497006
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Dissolved	Water	6020B	497006
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Dissolved	Water	6020B	497006
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Dissolved	Water	6020B	497006
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Dissolved	Water	6020B	497006
MB 410-497006/1-A	Method Blank	Total Recoverable	Water	6020B	497006
LCS 410-497006/2-A	Lab Control Sample	Total Recoverable	Water	6020B	497006

General Chemistry

Analysis Batch: 495610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Total/NA	Water	2540C - 2015	
MB 410-495610/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-495610/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 495612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Total/NA	Water	2540C - 2015	
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Total/NA	Water	2540C - 2015	
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Total/NA	Water	2540C - 2015	
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Total/NA	Water	2540C - 2015	
MB 410-495612/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-495612/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
410-167993-1 DU	AP-1DGWC-48 Influent Day 35	Total/NA	Water	2540C - 2015	

Analysis Batch: 495897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-167993-1	AP-1DGWC-48 Influent Day 35	Total/NA	Water	9040C	
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Total/NA	Water	9040C	
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Total/NA	Water	9040C	
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Total/NA	Water	9040C	
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Total/NA	Water	9040C	
LCS 410-495897/3	Lab Control Sample	Total/NA	Water	9040C	
LCSD 410-495897/4	Lab Control Sample Dup	Total/NA	Water	9040C	

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1DGWC-48 Influent Day 35
Lab Sample ID: 410-167993-1
Date Collected: 04/16/24 08:00
Matrix: Water
Date Received: 04/16/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	497711	W7FX	ELLE	04/23/24 18:13
Total/NA	Analysis	EPA 300.0 R2.1		50	497711	W7FX	ELLE	04/23/24 18:25
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6010D		1	499285	T8CQ	ELLE	04/26/24 16:29
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6020B		1	499531	F7JF	ELLE	04/28/24 11:00
Dissolved	Prep	7470A			496073	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496327	UEFS	ELLE	04/19/24 09:31
Total/NA	Analysis	2540C - 2015		1	495612	M98K	ELLE	04/18/24 07:37 - 04/19/24 10:14 [1]
Total/NA	Analysis	9040C		1	495897	DI9Q	ELLE	04/17/24 20:03

Client Sample ID: AP-1 DGWC-48 1 Control Day 35
Lab Sample ID: 410-167993-2
Date Collected: 04/16/24 08:15
Matrix: Water
Date Received: 04/16/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	497711	W7FX	ELLE	04/23/24 18:37
Total/NA	Analysis	EPA 300.0 R2.1		50	497711	W7FX	ELLE	04/23/24 18:49
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6010D		1	499285	T8CQ	ELLE	04/26/24 16:26
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6020B		1	499531	F7JF	ELLE	04/28/24 10:58
Dissolved	Prep	7470A			496073	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496327	UEFS	ELLE	04/19/24 09:33
Total/NA	Analysis	2540C - 2015		1	495610	M98K	ELLE	04/18/24 07:32 - 04/19/24 10:14 [1]
Total/NA	Analysis	9040C		1	495897	DI9Q	ELLE	04/17/24 20:07

Client Sample ID: AP-1 DGWC-48 2 KHCO3 Day 35
Lab Sample ID: 410-167993-3
Date Collected: 04/16/24 08:30
Matrix: Water
Date Received: 04/16/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	497711	W7FX	ELLE	04/23/24 19:01
Total/NA	Analysis	EPA 300.0 R2.1		50	497711	W7FX	ELLE	04/23/24 19:13
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6010D		1	499285	T8CQ	ELLE	04/26/24 16:23
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6020B		1	499531	F7JF	ELLE	04/28/24 10:56
Dissolved	Prep	7470A			496073	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496327	UEFS	ELLE	04/19/24 09:58
Total/NA	Analysis	2540C - 2015		1	495612	M98K	ELLE	04/18/24 07:37 - 04/19/24 10:14 [1]
Total/NA	Analysis	9040C		1	495897	DI9Q	ELLE	04/17/24 19:52

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Client Sample ID: AP-1 DGWC-48 2 FeSO4 Day 35
Lab Sample ID: 410-167993-4

Date Collected: 04/16/24 08:45
Matrix: Water
Date Received: 04/16/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	497711	W7FX	ELLE	04/23/24 19:26
Total/NA	Analysis	EPA 300.0 R2.1		50	497711	W7FX	ELLE	04/23/24 19:38
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6010D		1	499285	T8CQ	ELLE	04/26/24 16:32
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6020B		1	499531	F7JF	ELLE	04/28/24 11:14
Dissolved	Prep	7470A			496073	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496327	UEFS	ELLE	04/19/24 10:00
Total/NA	Analysis	2540C - 2015		1	495612	M98K	ELLE	04/18/24 07:37 - 04/19/24 10:14 [1]
Total/NA	Analysis	9040C		1	495897	DI9Q	ELLE	04/17/24 19:55

Client Sample ID: AP-1 DGWC-48 4 ADA Carbon Day 35
Lab Sample ID: 410-167993-5

Date Collected: 04/16/24 09:00
Matrix: Water
Date Received: 04/16/24 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	497711	W7FX	ELLE	04/23/24 20:14
Total/NA	Analysis	EPA 300.0 R2.1		50	497711	W7FX	ELLE	04/23/24 20:26
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6010D		1	499285	T8CQ	ELLE	04/26/24 16:35
Dissolved	Prep	3005A			497006	X3ZX	ELLE	04/26/24 06:15
Dissolved	Analysis	6020B		1	499531	F7JF	ELLE	04/28/24 11:15
Dissolved	Prep	7470A			496073	UAMX	ELLE	04/19/24 06:00
Dissolved	Analysis	7470A		1	496327	UEFS	ELLE	04/19/24 10:03
Total/NA	Analysis	2540C - 2015		1	495612	M98K	ELLE	04/18/24 07:37 - 04/19/24 10:14 [1]
Total/NA	Analysis	9040C		1	495897	DI9Q	ELLE	04/17/24 19:59

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-167993-1
Project/Site: WSP Plant McDonough CCR TS III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-167993-1	AP-1DGWC-48 Influent Day 35	Water	04/16/24 08:00	04/16/24 14:40
410-167993-2	AP-1 DGWC-48 1 Control Day 35	Water	04/16/24 08:15	04/16/24 14:40
410-167993-3	AP-1 DGWC-48 2 KHCO3 Day 35	Water	04/16/24 08:30	04/16/24 14:40
410-167993-4	AP-1 DGWC-48 2 FeSO4 Day 35	Water	04/16/24 08:45	04/16/24 14:40
410-167993-5	AP-1 DGWC-48 4 ADA Carbon Day 35	Water	04/16/24 09:00	04/16/24 14:40

410-167993 Chain of Custody

Environmental Analysis Request/Chain of Custody

Acct. # _____ Group # _____ Sample # _____

| Client: Terra Systems, Inc. | | |

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-167993-1

Login Number: 167993

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Santiago, Nathaniel

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Michael D Lee
Terra Systems Inc
130 Hickman Road
Suite 1
Claymont, Delaware 19703

Generated 5/7/2024 2:48:23 PM

JOB DESCRIPTION

Golder/WSP column and batch studies

JOB NUMBER

410-168951-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

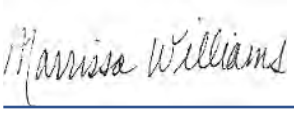
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Damiter, Project Manager
Marrissa.Damiter@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

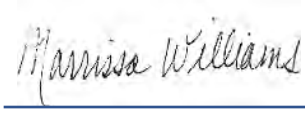

Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 9
QC Sample Results 13
QC Association Summary 17
Lab Chronicle 20
Certification Summary 22
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-168951-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/23/2024 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Client Sample ID: AP-1DGWC-48 Influent Day 42 — Lab Sample ID: 410-168951-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	308		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	9.55		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.509		0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.000821	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0273		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000457	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	62.8		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.135		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0286	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.000231	J	0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	320		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.98	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.0	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 1 Control Day 42 — Lab Sample ID: 410-168951-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	275		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	7.65		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.540		0.0500	0.0120	mg/L	1		6010D	Dissolved
Barium	0.0332		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000182	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	60.1		0.120	0.0500	mg/L	1		6020B	Dissolved
Cobalt	0.120		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	2.68		0.0500	0.0200	mg/L	1		6020B	Dissolved
Total Dissolved Solids	454		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.19	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	22.9	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 42 — Lab Sample ID: 410-168951-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	299		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	9.10		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.464		0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.00249		0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0549		0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	83.6		0.600	0.250	mg/L	5		6020B	Dissolved
Cobalt	0.0231		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0780		0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.00495		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	507		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.80	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.0	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 3 FeSO4 Day 42 — Lab Sample ID: 410-168951-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	356		75.0	25.0	mg/L	50		EPA 300.0 R2.1	Total/NA
Chloride	7.55		7.50	3.00	mg/L	5		EPA 300.0 R2.1	Total/NA
Boron	0.465		0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.00303		0.00200	0.000680	mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Client Sample ID: AP-1DGWC-48 3 FeSO4 Day 42 (Continued)
Lab Sample ID: 410-168951-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0381		0.00200	0.000746	mg/L	1		6020B	Dissolved
Calcium	43.7		0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.00149	J	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.0291		0.000500	0.000156	mg/L	1		6020B	Dissolved
Iron	0.0469	J	0.0500	0.0200	mg/L	1		6020B	Dissolved
Molybdenum	0.00474		0.000500	0.000130	mg/L	1		6020B	Dissolved
Total Dissolved Solids	370		60.0	24.0	mg/L	1		2540C - 2015	Total/NA
pH	6.81	HF	0.0100	0.0100	S.U.	1		9040C	Total/NA
Temperature	23.0	HF	0.0100	0.0100	Degrees C	1		9040C	Total/NA

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 42
Lab Sample ID: 410-168951-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.483		0.0500	0.0120	mg/L	1		6010D	Dissolved
Arsenic	0.00148	J	0.00200	0.000680	mg/L	1		6020B	Dissolved
Barium	0.0657		0.00200	0.000746	mg/L	1		6020B	Dissolved
Cadmium	0.000169	J	0.000500	0.000151	mg/L	1		6020B	Dissolved
Calcium	45.6		0.120	0.0500	mg/L	1		6020B	Dissolved
Chromium	0.000699	J	0.00200	0.000550	mg/L	1		6020B	Dissolved
Cobalt	0.0239		0.000500	0.000156	mg/L	1		6020B	Dissolved
Lead	0.000131	J	0.000500	0.000120	mg/L	1		6020B	Dissolved
Molybdenum	0.00562		0.000500	0.000130	mg/L	1		6020B	Dissolved
Iron	0.141		0.0500	0.0200	mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-1DGWC-48 Influent Day 42

Lab Sample ID: 410-168951-1

Date Collected: 04/23/24 08:00

Matrix: Water

Date Received: 04/23/24 14:55

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			05/03/24 23:23	5
Sulfate	**308**		75.0	25.0	mg/L			05/03/24 23:35	50
Chloride	**9.55**		7.50	3.00	mg/L			05/03/24 23:23	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.509**		0.0500	0.0120	mg/L		05/01/24 06:35	05/01/24 15:37	1
Lithium	<0.0110		0.0500	0.0110	mg/L		05/01/24 06:35	05/01/24 15:37	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		05/01/24 06:35	05/01/24 18:04	1
Arsenic	**0.000821**	**J**	0.00200	0.000680	mg/L		05/01/24 06:35	05/01/24 18:04	1
Barium	**0.0273**		0.00200	0.000746	mg/L		05/01/24 06:35	05/01/24 18:04	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		05/01/24 06:35	05/01/24 18:04	1
Cadmium	**0.000457**	**J**	0.000500	0.000151	mg/L		05/01/24 06:35	05/01/24 18:04	1
Calcium	**62.8**		0.120	0.0500	mg/L		05/01/24 06:35	05/01/24 18:04	1
Chromium	<0.000550		0.00200	0.000550	mg/L		05/01/24 06:35	05/01/24 18:04	1
Cobalt	**0.135**		0.000500	0.000156	mg/L		05/01/24 06:35	05/01/24 18:04	1
Iron	**0.0286**	**J**	0.0500	0.0200	mg/L		05/01/24 06:35	05/01/24 18:04	1
Lead	<0.000120		0.000500	0.000120	mg/L		05/01/24 06:35	05/01/24 18:04	1
Molybdenum	**0.000231**	**J**	0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:04	1
Selenium	<0.000278		0.00100	0.000278	mg/L		05/01/24 06:35	05/01/24 18:04	1
Thallium	<0.000130		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:04	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/26/24 05:30	04/26/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**320**		60.0	24.0	mg/L			04/24/24 06:33	1
pH (SW846 9040C)	**6.98**	**HF**	0.0100	0.0100	S.U.			04/24/24 19:22	1
Temperature (SW846 9040C)	**23.0**	**HF**	0.0100	0.0100	Degrees C			04/24/24 19:22	1

Client Sample ID: AP-1DGWC-48 1 Control Day 42

Lab Sample ID: 410-168951-2

Date Collected: 04/23/24 08:15

Matrix: Water

Date Received: 04/23/24 14:55

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			05/03/24 23:47	5
Sulfate	**275**		75.0	25.0	mg/L			05/04/24 00:00	50
Chloride	**7.65**		7.50	3.00	mg/L			05/03/24 23:47	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.540**		0.0500	0.0120	mg/L		05/01/24 06:35	05/01/24 15:40	1
Lithium	<0.0110		0.0500	0.0110	mg/L		05/01/24 06:35	05/01/24 15:40	1

Client Sample ID: AP-1DGWC-48 1 Control Day 42

Lab Sample ID: 410-168951-2

Date Collected: 04/23/24 08:15

Matrix: Water

Date Received: 04/23/24 14:55

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		05/01/24 06:35	05/01/24 18:06	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		05/01/24 06:35	05/01/24 18:06	1
Barium	**0.0332**		0.00200	0.000746	mg/L		05/01/24 06:35	05/01/24 18:06	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		05/01/24 06:35	05/01/24 18:06	1
Cadmium	**0.000182**	**J**	0.000500	0.000151	mg/L		05/01/24 06:35	05/01/24 18:06	1
Calcium	**60.1**		0.120	0.0500	mg/L		05/01/24 06:35	05/01/24 18:06	1
Chromium	<0.000550		0.00200	0.000550	mg/L		05/01/24 06:35	05/01/24 18:06	1
Cobalt	**0.120**		0.000500	0.000156	mg/L		05/01/24 06:35	05/01/24 18:06	1
Iron	**2.68**		0.0500	0.0200	mg/L		05/01/24 06:35	05/01/24 18:06	1
Lead	<0.000120		0.000500	0.000120	mg/L		05/01/24 06:35	05/01/24 18:06	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:06	1
Selenium	<0.000278		0.00100	0.000278	mg/L		05/01/24 06:35	05/01/24 18:06	1
Thallium	<0.000130		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:06	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/26/24 05:30	04/26/24 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**454**		60.0	24.0	mg/L			04/24/24 06:33	1
pH (SW846 9040C)	**6.19**	**HF**	0.0100	0.0100	S.U.			04/24/24 19:26	1
Temperature (SW846 9040C)	**22.9**	**HF**	0.0100	0.0100	Degrees C			04/24/24 19:26	1

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 42

Lab Sample ID: 410-168951-3

Date Collected: 04/23/24 08:30

Matrix: Water

Date Received: 04/23/24 14:55

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			05/02/24 08:29	5
Sulfate	**299**		75.0	25.0	mg/L			05/02/24 08:41	50
Chloride	**9.10**		7.50	3.00	mg/L			05/02/24 08:29	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.464**		0.0500	0.0120	mg/L		05/01/24 06:35	05/01/24 15:50	1
Lithium	<0.0110		0.0500	0.0110	mg/L		05/01/24 06:35	05/01/24 15:50	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		05/01/24 06:35	05/01/24 18:12	1
Arsenic	**0.00249**		0.00200	0.000680	mg/L		05/01/24 06:35	05/01/24 18:12	1
Barium	**0.0549**		0.00200	0.000746	mg/L		05/01/24 06:35	05/01/24 18:12	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		05/01/24 06:35	05/01/24 18:12	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		05/01/24 06:35	05/01/24 18:12	1
Calcium	**83.6**		0.600	0.250	mg/L		05/01/24 06:35	05/01/24 18:58	5
Chromium	<0.000550		0.00200	0.000550	mg/L		05/01/24 06:35	05/01/24 18:12	1
Cobalt	**0.0231**		0.000500	0.000156	mg/L		05/01/24 06:35	05/01/24 18:12	1
Iron	**0.0780**		0.0500	0.0200	mg/L		05/01/24 06:35	05/01/24 18:12	1

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 42
Lab Sample ID: 410-168951-3

Date Collected: 04/23/24 08:30
Matrix: Water
Date Received: 04/23/24 14:55

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.000120		0.000500	0.000120	mg/L		05/01/24 06:35	05/01/24 18:12	1
Molybdenum	**0.00495**		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:12	1
Selenium	<0.000278		0.00100	0.000278	mg/L		05/01/24 06:35	05/01/24 18:12	1
Thallium	<0.000130		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:12	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/26/24 05:30	04/26/24 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**507**		60.0	24.0	mg/L			04/24/24 06:33	1
pH (SW846 9040C)	**6.80**	**HF**	0.0100	0.0100	S.U.			04/24/24 19:14	1
Temperature (SW846 9040C)	**23.0**	**HF**	0.0100	0.0100	Degrees C			04/24/24 19:14	1

Client Sample ID: AP-1DGWC-48 3 FeSO4 Day 42
Lab Sample ID: 410-168951-4

Date Collected: 04/23/24 08:45
Matrix: Water
Date Received: 04/23/24 14:55

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.450		1.00	0.450	mg/L			05/02/24 08:53	5
Sulfate	**356**		75.0	25.0	mg/L			05/02/24 09:29	50
Chloride	**7.55**		7.50	3.00	mg/L			05/02/24 08:53	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.465**		0.0500	0.0120	mg/L		05/01/24 06:35	05/01/24 15:44	1
Lithium	<0.0110		0.0500	0.0110	mg/L		05/01/24 06:35	05/01/24 15:44	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		05/01/24 06:35	05/01/24 18:08	1
Arsenic	**0.00303**		0.00200	0.000680	mg/L		05/01/24 06:35	05/01/24 18:08	1
Barium	**0.0381**		0.00200	0.000746	mg/L		05/01/24 06:35	05/01/24 18:08	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		05/01/24 06:35	05/01/24 18:08	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		05/01/24 06:35	05/01/24 18:08	1
Calcium	**43.7**		0.120	0.0500	mg/L		05/01/24 06:35	05/01/24 18:08	1
Chromium	**0.00149**	**J**	0.00200	0.000550	mg/L		05/01/24 06:35	05/01/24 18:08	1
Cobalt	**0.0291**		0.000500	0.000156	mg/L		05/01/24 06:35	05/01/24 18:08	1
Iron	**0.0469**	**J**	0.0500	0.0200	mg/L		05/01/24 06:35	05/01/24 18:08	1
Lead	<0.000120		0.000500	0.000120	mg/L		05/01/24 06:35	05/01/24 18:08	1
Molybdenum	**0.00474**		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:08	1
Selenium	<0.000278		0.00100	0.000278	mg/L		05/01/24 06:35	05/01/24 18:08	1
Thallium	<0.000130		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 18:08	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/26/24 05:30	04/26/24 11:47	1

Client Sample ID: AP-1DGWC-48 3 FeSO4 Day 42
Lab Sample ID: 410-168951-4

Date Collected: 04/23/24 08:45
Matrix: Water
Date Received: 04/23/24 14:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**370**		60.0	24.0	mg/L			04/24/24 06:33	1
pH (SW846 9040C)	**6.81**	**HF**	0.0100	0.0100	S.U.			04/24/24 19:18	1
Temperature (SW846 9040C)	**23.0**	**HF**	0.0100	0.0100	Degrees C			04/24/24 19:18	1

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 42
Lab Sample ID: 410-168951-5

Date Collected: 04/23/24 09:00
Matrix: Water
Date Received: 04/23/24 14:55

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.483**		0.0500	0.0120	mg/L		04/30/24 06:55	05/01/24 09:53	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/30/24 06:55	05/01/24 09:53	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/30/24 06:55	04/30/24 16:52	1
Arsenic	**0.00148**	**J**	0.00200	0.000680	mg/L		04/30/24 06:55	04/30/24 16:52	1
Barium	**0.0657**		0.00200	0.000746	mg/L		04/30/24 06:55	04/30/24 16:52	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/30/24 06:55	04/30/24 16:52	1
Cadmium	**0.000169**	**J**	0.000500	0.000151	mg/L		04/30/24 06:55	04/30/24 16:52	1
Calcium	**45.6**		0.120	0.0500	mg/L		04/30/24 06:55	04/30/24 16:52	1
Chromium	**0.000699**	**J**	0.00200	0.000550	mg/L		04/30/24 06:55	04/30/24 16:52	1
Cobalt	**0.0239**		0.000500	0.000156	mg/L		04/30/24 06:55	04/30/24 16:52	1
Lead	**0.000131**	**J**	0.000500	0.000120	mg/L		04/30/24 06:55	04/30/24 16:52	1
Molybdenum	**0.00562**		0.000500	0.000130	mg/L		04/30/24 06:55	04/30/24 16:52	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/30/24 06:55	04/30/24 16:52	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/30/24 06:55	04/30/24 16:52	1
Iron	**0.141**		0.0500	0.0200	mg/L		04/30/24 06:55	04/30/24 16:52	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/26/24 05:30	04/26/24 11:51	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-501018/5
Matrix: Water
Analysis Batch: 501018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			05/02/24 05:03	1
Sulfate	<0.500		1.50	0.500	mg/L			05/02/24 05:03	1
Chloride	<0.600		1.50	0.600	mg/L			05/02/24 05:03	1

Lab Sample ID: LCS 410-501018/3
Matrix: Water
Analysis Batch: 501018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7361		mg/L		98	90 - 110
Sulfate	7.50	7.302		mg/L		97	90 - 110
Chloride	3.00	2.868		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-501018/4
Matrix: Water
Analysis Batch: 501018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7321		mg/L		98	90 - 110	1	20
Sulfate	7.50	7.287		mg/L		97	90 - 110	0	20
Chloride	3.00	2.865		mg/L		96	90 - 110	0	20

Lab Sample ID: MB 410-501482/5
Matrix: Water
Analysis Batch: 501482

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0900		0.200	0.0900	mg/L			05/03/24 12:17	1
Sulfate	<0.500		1.50	0.500	mg/L			05/03/24 12:17	1
Chloride	<0.600		1.50	0.600	mg/L			05/03/24 12:17	1

Lab Sample ID: LCS 410-501482/3
Matrix: Water
Analysis Batch: 501482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.7178		mg/L		96	90 - 110
Sulfate	7.50	7.097		mg/L		95	90 - 110
Chloride	3.00	2.807		mg/L		94	90 - 110

Lab Sample ID: LCSD 410-501482/4
Matrix: Water
Analysis Batch: 501482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.750	0.7147		mg/L		95	90 - 110	0	20
Sulfate	7.50	7.097		mg/L		95	90 - 110	0	20
Chloride	3.00	2.805		mg/L		93	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-499780/1-A
Matrix: Water
Analysis Batch: 500823

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 499780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		04/30/24 06:55	05/01/24 09:15	1
Lithium	<0.0110		0.0500	0.0110	mg/L		04/30/24 06:55	05/01/24 09:15	1

Lab Sample ID: LCS 410-499780/2-A
Matrix: Water
Analysis Batch: 500823

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 499780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5189		mg/L		104	83 - 119
Lithium	0.500	0.5050		mg/L		101	88 - 113

Lab Sample ID: MB 410-500201/1-A
Matrix: Water
Analysis Batch: 501013

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 500201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0120		0.0500	0.0120	mg/L		05/01/24 06:35	05/01/24 15:30	1
Lithium	<0.0110		0.0500	0.0110	mg/L		05/01/24 06:35	05/01/24 15:30	1

Lab Sample ID: LCS 410-500201/2-A
Matrix: Water
Analysis Batch: 501013

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 500201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.4809		mg/L		96	83 - 119
Lithium	0.500	0.4766		mg/L		95	88 - 113

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-499780/1-A
Matrix: Water
Analysis Batch: 500535

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 499780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		04/30/24 06:55	04/30/24 15:43	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		04/30/24 06:55	04/30/24 15:43	1
Barium	<0.000746		0.00200	0.000746	mg/L		04/30/24 06:55	04/30/24 15:43	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		04/30/24 06:55	04/30/24 15:43	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		04/30/24 06:55	04/30/24 15:43	1
Calcium	<0.0500		0.120	0.0500	mg/L		04/30/24 06:55	04/30/24 15:43	1
Chromium	<0.000550		0.00200	0.000550	mg/L		04/30/24 06:55	04/30/24 15:43	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		04/30/24 06:55	04/30/24 15:43	1
Lead	<0.000120		0.000500	0.000120	mg/L		04/30/24 06:55	04/30/24 15:43	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		04/30/24 06:55	04/30/24 15:43	1
Selenium	<0.000278		0.00100	0.000278	mg/L		04/30/24 06:55	04/30/24 15:43	1
Thallium	<0.000130		0.000500	0.000130	mg/L		04/30/24 06:55	04/30/24 15:43	1
Iron	<0.0200		0.0500	0.0200	mg/L		04/30/24 06:55	04/30/24 15:43	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-499780/2-A
Matrix: Water
Analysis Batch: 500535

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 499780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09925		mg/L		99	90 - 115
Arsenic	0.500	0.4866		mg/L		97	90 - 109
Barium	0.500	0.5004		mg/L		100	90 - 113
Beryllium	0.0500	0.05035		mg/L		101	82 - 120
Cadmium	0.0500	0.05062		mg/L		101	90 - 112
Calcium	5.00	4.901		mg/L		98	90 - 112
Chromium	0.500	0.5011		mg/L		100	90 - 110
Cobalt	0.500	0.4940		mg/L		99	90 - 110
Lead	0.0500	0.04926		mg/L		99	90 - 110
Molybdenum	0.0500	0.05133		mg/L		103	90 - 115
Selenium	0.100	0.09772		mg/L		98	90 - 110
Thallium	0.100	0.09650		mg/L		96	90 - 110
Iron	5.00	5.044		mg/L		101	90 - 111

Lab Sample ID: MB 410-500201/1-A
Matrix: Water
Analysis Batch: 501005

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 500201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.000200		0.00100	0.000200	mg/L		05/01/24 06:35	05/01/24 17:32	1
Arsenic	<0.000680		0.00200	0.000680	mg/L		05/01/24 06:35	05/01/24 17:32	1
Barium	<0.000746		0.00200	0.000746	mg/L		05/01/24 06:35	05/01/24 17:32	1
Beryllium	<0.000119		0.000500	0.000119	mg/L		05/01/24 06:35	05/01/24 17:32	1
Cadmium	<0.000151		0.000500	0.000151	mg/L		05/01/24 06:35	05/01/24 17:32	1
Calcium	<0.0500		0.120	0.0500	mg/L		05/01/24 06:35	05/01/24 17:32	1
Chromium	<0.000550		0.00200	0.000550	mg/L		05/01/24 06:35	05/01/24 17:32	1
Cobalt	<0.000156		0.000500	0.000156	mg/L		05/01/24 06:35	05/01/24 17:32	1
Lead	<0.000120		0.000500	0.000120	mg/L		05/01/24 06:35	05/01/24 17:32	1
Molybdenum	<0.000130		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 17:32	1
Selenium	<0.000278		0.00100	0.000278	mg/L		05/01/24 06:35	05/01/24 17:32	1
Thallium	<0.000130		0.000500	0.000130	mg/L		05/01/24 06:35	05/01/24 17:32	1
Iron	<0.0200		0.0500	0.0200	mg/L		05/01/24 06:35	05/01/24 17:32	1

Lab Sample ID: LCS 410-500201/2-A
Matrix: Water
Analysis Batch: 501005

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 500201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.09861		mg/L		99	90 - 115
Arsenic	0.500	0.4737		mg/L		95	90 - 109
Barium	0.500	0.4987		mg/L		100	90 - 113
Beryllium	0.0500	0.04943		mg/L		99	82 - 120
Cadmium	0.0500	0.04939		mg/L		99	90 - 112
Calcium	5.00	4.773		mg/L		95	90 - 112
Chromium	0.500	0.4805		mg/L		96	90 - 110
Cobalt	0.500	0.4654		mg/L		93	90 - 110
Lead	0.0500	0.04945		mg/L		99	90 - 110
Molybdenum	0.0500	0.04985		mg/L		100	90 - 115
Selenium	0.100	0.09718		mg/L		97	90 - 110

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-500201/2-A
Matrix: Water
Analysis Batch: 501005

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 500201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.09799		mg/L		98	90 - 110
Iron	5.00	4.744		mg/L		95	90 - 111

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-498587/1-A
Matrix: Water
Analysis Batch: 499081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000790		0.000200	0.0000790	mg/L		04/26/24 05:30	04/26/24 11:22	1

Lab Sample ID: LCS 410-498587/2-A
Matrix: Water
Analysis Batch: 499081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.0009340		mg/L		93	80 - 118

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 410-497821/1
Matrix: Water
Analysis Batch: 497821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<12.0		30.0	12.0	mg/L			04/24/24 06:33	1

Lab Sample ID: LCS 410-497821/2
Matrix: Water
Analysis Batch: 497821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	196.0		mg/L		98	90 - 110

Method: 9040C - pH

Lab Sample ID: LCS 410-498394/3
Matrix: Water
Analysis Batch: 498394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.000		S.U.		100	95 - 105

HPLC/IC

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Total/NA	Water	EPA 300.0 R2.1	
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Total/NA	Water	EPA 300.0 R2.1	
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Total/NA	Water	EPA 300.0 R2.1	
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Total/NA	Water	EPA 300.0 R2.1	
MB 410-501018/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-501018/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-501018/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 501482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Total/NA	Water	EPA 300.0 R2.1	
410-168951-1	AP-1DGWC-48 Influent Day 42	Total/NA	Water	EPA 300.0 R2.1	
410-168951-2	AP-1DGWC-48 1 Control Day 42	Total/NA	Water	EPA 300.0 R2.1	
410-168951-2	AP-1DGWC-48 1 Control Day 42	Total/NA	Water	EPA 300.0 R2.1	
MB 410-501482/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-501482/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-501482/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 498587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Dissolved	Water	7470A	
410-168951-2	AP-1DGWC-48 1 Control Day 42	Dissolved	Water	7470A	
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Dissolved	Water	7470A	
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Dissolved	Water	7470A	
410-168951-5	AP-1DGWC-48 4 ADA Carbon Day 42	Dissolved	Water	7470A	
MB 410-498587/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-498587/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 499081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Dissolved	Water	7470A	498587
410-168951-2	AP-1DGWC-48 1 Control Day 42	Dissolved	Water	7470A	498587
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Dissolved	Water	7470A	498587
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Dissolved	Water	7470A	498587
410-168951-5	AP-1DGWC-48 4 ADA Carbon Day 42	Dissolved	Water	7470A	498587
MB 410-498587/1-A	Method Blank	Total/NA	Water	7470A	498587
LCS 410-498587/2-A	Lab Control Sample	Total/NA	Water	7470A	498587

Prep Batch: 499780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-5	AP-1DGWC-48 4 ADA Carbon Day 42	Dissolved	Water	3005A	
MB 410-499780/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-499780/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 500201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Dissolved	Water	3005A	
410-168951-2	AP-1DGWC-48 1 Control Day 42	Dissolved	Water	3005A	
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 500201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Dissolved	Water	3005A	
MB 410-500201/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-500201/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 500535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-5	AP-1DGWC-48 4 ADA Carbon Day 42	Dissolved	Water	6020B	499780
MB 410-499780/1-A	Method Blank	Total Recoverable	Water	6020B	499780
LCS 410-499780/2-A	Lab Control Sample	Total Recoverable	Water	6020B	499780

Analysis Batch: 500823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-5	AP-1DGWC-48 4 ADA Carbon Day 42	Dissolved	Water	6010D	499780
MB 410-499780/1-A	Method Blank	Total Recoverable	Water	6010D	499780
LCS 410-499780/2-A	Lab Control Sample	Total Recoverable	Water	6010D	499780

Analysis Batch: 501005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Dissolved	Water	6020B	500201
410-168951-2	AP-1DGWC-48 1 Control Day 42	Dissolved	Water	6020B	500201
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Dissolved	Water	6020B	500201
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Dissolved	Water	6020B	500201
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Dissolved	Water	6020B	500201
MB 410-500201/1-A	Method Blank	Total Recoverable	Water	6020B	500201
LCS 410-500201/2-A	Lab Control Sample	Total Recoverable	Water	6020B	500201

Analysis Batch: 501013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Dissolved	Water	6010D	500201
410-168951-2	AP-1DGWC-48 1 Control Day 42	Dissolved	Water	6010D	500201
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Dissolved	Water	6010D	500201
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Dissolved	Water	6010D	500201
MB 410-500201/1-A	Method Blank	Total Recoverable	Water	6010D	500201
LCS 410-500201/2-A	Lab Control Sample	Total Recoverable	Water	6010D	500201

General Chemistry

Analysis Batch: 497821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Total/NA	Water	2540C - 2015	
410-168951-2	AP-1DGWC-48 1 Control Day 42	Total/NA	Water	2540C - 2015	
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Total/NA	Water	2540C - 2015	
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Total/NA	Water	2540C - 2015	
MB 410-497821/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-497821/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 498394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-1	AP-1DGWC-48 Influent Day 42	Total/NA	Water	9040C	
410-168951-2	AP-1DGWC-48 1 Control Day 42	Total/NA	Water	9040C	
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Total/NA	Water	9040C	

General Chemistry (Continued)

Analysis Batch: 498394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Total/NA	Water	9040C	
LCS 410-498394/3	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Client Sample ID: AP-1DGWC-48 Influent Day 42
Lab Sample ID: 410-168951-1

Date Collected: 04/23/24 08:00
Matrix: Water
Date Received: 04/23/24 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	501482	L4QM	ELLE	05/03/24 23:23
Total/NA	Analysis	EPA 300.0 R2.1		50	501482	L4QM	ELLE	05/03/24 23:35
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6010D		1	501013	T8CQ	ELLE	05/01/24 15:37
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6020B		1	501005	UCIG	ELLE	05/01/24 18:04
Dissolved	Prep	7470A			498587	UAMX	ELLE	04/26/24 05:30
Dissolved	Analysis	7470A		1	499081	UEFS	ELLE	04/26/24 11:49
Total/NA	Analysis	2540C - 2015		1	497821	M98K	ELLE	04/24/24 06:33 - 04/25/24 10:00 [1]
Total/NA	Analysis	9040C		1	498394	DI9Q	ELLE	04/24/24 19:22

Client Sample ID: AP-1DGWC-48 1 Control Day 42
Lab Sample ID: 410-168951-2

Date Collected: 04/23/24 08:15
Matrix: Water
Date Received: 04/23/24 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	501482	L4QM	ELLE	05/03/24 23:47
Total/NA	Analysis	EPA 300.0 R2.1		50	501482	L4QM	ELLE	05/04/24 00:00
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6010D		1	501013	T8CQ	ELLE	05/01/24 15:40
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6020B		1	501005	UCIG	ELLE	05/01/24 18:06
Dissolved	Prep	7470A			498587	UAMX	ELLE	04/26/24 05:30
Dissolved	Analysis	7470A		1	499081	UEFS	ELLE	04/26/24 11:41
Total/NA	Analysis	2540C - 2015		1	497821	M98K	ELLE	04/24/24 06:33 - 04/25/24 10:00 [1]
Total/NA	Analysis	9040C		1	498394	DI9Q	ELLE	04/24/24 19:26

Client Sample ID: AP-1DGWC-48 2 KHCO3 Day 42
Lab Sample ID: 410-168951-3

Date Collected: 04/23/24 08:30
Matrix: Water
Date Received: 04/23/24 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	501018	L4QM	ELLE	05/02/24 08:29
Total/NA	Analysis	EPA 300.0 R2.1		50	501018	L4QM	ELLE	05/02/24 08:41
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6010D		1	501013	T8CQ	ELLE	05/01/24 15:50
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6020B		1	501005	UCIG	ELLE	05/01/24 18:12
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6020B		5	501005	UCIG	ELLE	05/01/24 18:58
Dissolved	Prep	7470A			498587	UAMX	ELLE	04/26/24 05:30
Dissolved	Analysis	7470A		1	499081	UEFS	ELLE	04/26/24 11:45
Total/NA	Analysis	2540C - 2015		1	497821	M98K	ELLE	04/24/24 06:33 - 04/25/24 10:00 [1]
Total/NA	Analysis	9040C		1	498394	DI9Q	ELLE	04/24/24 19:14

Lab Chronicle

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Client Sample ID: AP-1DGWC-48 3 FeSO4 Day 42
Lab Sample ID: 410-168951-4

Date Collected: 04/23/24 08:45
Matrix: Water
Date Received: 04/23/24 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 300.0 R2.1		5	501018	L4QM	ELLE	05/02/24 08:53
Total/NA	Analysis	EPA 300.0 R2.1		50	501018	L4QM	ELLE	05/02/24 09:29
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6010D		1	501013	T8CQ	ELLE	05/01/24 15:44
Dissolved	Prep	3005A			500201	X3ZX	ELLE	05/01/24 06:35
Dissolved	Analysis	6020B		1	501005	UCIG	ELLE	05/01/24 18:08
Dissolved	Prep	7470A			498587	UAMX	ELLE	04/26/24 05:30
Dissolved	Analysis	7470A		1	499081	UEFS	ELLE	04/26/24 11:47
Total/NA	Analysis	2540C - 2015		1	497821	M98K	ELLE	04/24/24 06:33 - 04/25/24 10:00 [1]
Total/NA	Analysis	9040C		1	498394	DI9Q	ELLE	04/24/24 19:18

Client Sample ID: AP-1DGWC-48 4 ADA Carbon Day 42
Lab Sample ID: 410-168951-5

Date Collected: 04/23/24 09:00
Matrix: Water
Date Received: 04/23/24 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			499780	X3ZX	ELLE	04/30/24 06:55
Dissolved	Analysis	6010D		1	500823	MT26	ELLE	05/01/24 09:53
Dissolved	Prep	3005A			499780	X3ZX	ELLE	04/30/24 06:55
Dissolved	Analysis	6020B		1	500535	UCIG	ELLE	04/30/24 16:52
Dissolved	Prep	7470A			498587	UAMX	ELLE	04/26/24 05:30
Dissolved	Analysis	7470A		1	499081	UEFS	ELLE	04/26/24 11:51

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	ELLE
9040C	pH	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Terra Systems Inc
Job ID: 410-168951-1
Project/Site: Golder/WSP column and batch studies

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-168951-1	AP-1DGWC-48 Influent Day 42	Water	04/23/24 08:00	04/23/24 14:55
410-168951-2	AP-1DGWC-48 1 Control Day 42	Water	04/23/24 08:15	04/23/24 14:55
410-168951-3	AP-1DGWC-48 2 KHCO3 Day 42	Water	04/23/24 08:30	04/23/24 14:55
410-168951-4	AP-1DGWC-48 3 FeSO4 Day 42	Water	04/23/24 08:45	04/23/24 14:55
410-168951-5	AP-1DGWC-48 4 ADA Carbon Day 42	Water	04/23/24 09:00	04/23/24 14:55

Environn quest/Chain of Custody

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410-168951 Chain of Custody

Acct. # _____ ple # _____

Client: **Terra Systems, Inc.**			
Project Name/#: WSP Plant McDonough CCR TS III	Site ID #: Srymna, GA		
Project Manager: Michael D. Lee	P.O. #: 232720 4-23-24		
Sampler: Michael D. Lee	PWSID #:		
Phone #: 302-798-9553	Quote #: 41016315		
State where samples were collected: ___ GA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	Surface	NPDES	Other:	Total # of Containers	Analyses Requested: Dis As, Ba, Be, B, Ca, Cd (N)	Co, Cr, Fe, Hg, Li, Mo, Pb (N)	Sb, Se, Tl (field filtered) (N)	Total Dissolved Solids & pH (-)	SO4, Fl, Cl (-)
AP-1DGWC-48 Influent Day 42	4/23/2024	8:00		X				X					3	X	X	X	X	X
AP-1 DGWC-48 1 Control Day 42	4/23/2024	8:15		X				X					3	X	X	X	X	X
AP-1 DGWC-48 2 KHCO3 Day 42	4/23/2024	8:30		X				X					3	X	X	X	X	X
AP-1 DGWC-48 3 FeSO4 Day 42	4/23/2024	8:45		X				X					3	X	X	X	X	X
AP-1 DGWC-48 4 ADA Carbon Day 42	4/23/2024	9:00		X				X					1	X	X	X		

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 5/7/24

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mlee@terrasystems.net

Phone: 302-798-9553

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☑ If yes, format: _____

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Michael D Lee	4/23/24	12:40	[illegible]	4/23/24	1240
2	[illegible]	4/23/24	1455			
3						
4						
5				[illegible]	4/23/24	1455

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Raw 0.3 - core 0.4

Temperature upon receipt _____ °C

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7045 0216

Login Sample Receipt Checklist

Client: Terra Systems Inc

Job Number: 410-168951-1

Login Number: 168951

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Ballard, Megan

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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